05 SENSORS

Contents

Sensors

Temperature & Humidity

Industrietechnik	145
SAUTER	153
Regin	159
Axio	163
Alre	164
IBC	165
Sontay	166

Light & Occupancy

Regin	176
Axio	176
Sontay	177

Air Pressure & Velocity

Air Monitor	179
Sontay	181

Liquid Level, Flow & Pressure

SAUTER	185
Sontay	191

Power Sensors

Greystone, ACI, Functional Devices Inc.	195

Temperature & Humidity

industrie technik

ROOM HUMIDISTAT

Electromechanical humidistat for room mounting with synthetic element.

Technical data	
Sensor element	Synthetic element
Switch capacity	Humidify: 2 (1) A, 230 V ACDehumidify: 5 (1) A, 230 V AC
Setpoint	30...100 % RH
Dimensions	115 x 70 x 35 mm
Protection class	IP20

Part Number	Hidden setpoint
DBZH-101	-
DBZH-101U	X

ROOM HUMIDISTAT

Electromechanical humidistat with a synthetic element. The setpoint knob can be locked.

Technical data	
Sensor element	Synthetic element
Output	One, 230 V AC, 5 A, change-over
Setpoint	35...95 % RH
Dimensions	86 x 86 x 30 mm
Protection class	IP30

Part Number	Description
DBZH-102	Room humidistat, 1-step

DUCT HUMIDISTAT

Humidistat to be mounted in the duct.

Technical data	
Sensor element	Synthetic element
Switch capacity	15 (2) A, 230 V AC0.25 A, 230 V DC
Humidity range	30...100 % RH
Tube length	220 mm
Material, tube	Nickel-plated brass, perforated
Dimensions	108 x 70 x 72 mm

Part Number	Hidden setpoint	Protection class
DBKH-10	-	IP54
DBKH-10U	X	IP65

industrie technik

DUCT/WALL HUMIDISTAT

Electromechanical humidistat with change-over contact.

Technical data	
Sensor element	Human hair
Output	10 A, 250 V AC, change-over
Setpoint	10...100 % RH
Dimensions	80 x 85 x 88 mm
Protection class	IP54
Mounting	Duct or Wall
Hysteresis	3 % RH

Part Number	Description	Output	Step diff erential
DBKH-10H	Duct/wall humidistat	1-step	-
DBKH-20H	Duct/wall humidistat	2-step	0...25 % RH

HUMIDITY TRANSMITTER FOR ROOM MOUNTING, OUTPUT 0...10 V, IP30

Transmitters for relative humidity and temperature measurement.
They have good long-term stability and are resistant to contamination.

Technical data	
Supply voltage	24 V AC ± 10% / 15...35 V DC
Output signal	0...10 V DC or Modbus
Working range, humidity	0...100 % RH
Accuracy, humidity	±3 % RH at 20 °C
Dimensions	100 x 85 x 30.5 mm
Protection class	IP30
Working range, temperature	0...50 °C
Working range, humidity	0...100 % RH

Part Number	Output signal	Display
TUA-M	Modbus	-
TUA-D-M	Modbus	X
TUA	-0...10 V DC	-
TUA-D	0...10 V DC	X

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HUMIDITY TRANSMITTER FOR ROOM MOUNTING, OUTPUT 4...20 MA, IP30

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Technical data	
Supply voltage	Max 28 V DC, Min (11+(0,02xRL)) V DC
Output signal	4...20 mA (2 wire)
Accuracy, humidity	±3 % RH at 20 °C
Dimensions	100 x 85 x 30.5 mm
Protection class	IP30
Power consumption	0,6 W
Ambient temperature	0...50 °C
Ambient humidity	0...95% RH (non condensing)
Working range, humidity	0...100 % RH (non condensing)
Accuracy, humidity	±3 % RH at 20 °C

Part Number	Display
TUA-C	-
TUA-CD	X

HUMIDITY AND TEMPERATURE TRANSMITTER FOR ROOM MOUNTING, 4...20 MA

Technical data	
Supply voltage	Max. 28 V DC, Min. 11+(0.02xRL) V DC
Output signal	4...20 mA (2 wire)
Accuracy, humidity	±3% RH at 20 °C
Accuracy, temperature	±0.5°C at 20°C
Dimensions (WxHxD mm)	100 x 85 x 30.5
Protection class	IP30
Power consumption	1.2 W
Ambient temperature	0...50 °C
Ambient humidity	0...95 % RH (non-condensing)
Humidity range	0...100 % RH

Part Number	Display
TTUA-C	-
TTUA-CD	X

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HUMIDITY TRANSMITTER FOR ROOM MOUNTING, OUTPUT 4...20 MA, IP30

Technical data	
Supply voltage	24 V AC ±10 % / 15...35 V DC
Working range, temperature	0...50 °C
Working range, humidity	0...100 % RH
Accuracy, humidity	±3 % RH at 20°C
Dimensions	100 x 85 x 30.5 mm
Protection class	IP30

Part Number	Description	Display	Output signal	Accuracy, temperature
TTUA	RH + °C	-	0...10 V + 0...10 V	± 0.4 °C
TTUA-PT100	RH + PT100, 100 Ohm (0°C)	-	0...10 V + ohm	± 0,3 °C
TTUA-PT1000	RH + PT1000, 1000 Ohm (0°C)	-	0...10 V + ohm	± 0,3 °C
TTUA-D	RH + °C	X	0...10 V + 0...10 V	± 0.4 °C
TTUA-D-PT100	RH + PT100, 100 Ohm/0°C	X	0...10 V + ohm	± 0,3 °C
TTUA-D-PT1000	RH + PT1000, 1000 Ohm (0°C)	X	0...10 V + ohm	± 0,3 °C
TTUA-M	RH + °C	-	Modbus	± 0.4 °C
TTUA-D-M	RH + °C	X	Modbus	± 0.4 °C

TEMPERATURE TRANSMITTER FOR ROOM MOUNTING, 0...10 V AND MODBUS

Technical data	
Supply voltage	24 V AC ±10 % / 15...35 V DC
Display	4 digit
Dimensions 100 x 85 x 30.5 mm	100 x 85 x 30.5 mm
Protection class	IP30

Part Number	Output signal	Accuracy	Display
TTA	0...10 V DC	± 0.4°C	-
TTA-D	0...10 V DC	± 0.4°C	X
TTA-M	Modbus	± 0.4°C	-
TTA-D-M	Modbus	± 0.4°C	X

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TEMPERATURE TRANSMITTER FOR ROOM MOUNTING, 4...20 MA

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Technical data	
Supply voltage	Max. 28 V DC, Min. 11+(0.02xRL) V DC
Accuracy, temperature	±0.5°C at 20°C
Dimensions (WxHxD mm)	100 x 85 x 30.5
Protection class	IP30

Part Number	Output signal	Display
TTA-CD	4...20 mA (2 wires)	X (4 digits)
TTA-C	4...20 mA (2 wires)	-

WALL THERMOSTAT, IP65 /OUTDOOR

High quality thermostats for use in cooling, heating and ventilation systems.

Technical data	
Sensor element	Liquid-filled coiled copper bulb
Switch capacity	15 (8) A, 24...250 V AC
Dimensions	108 x 70 x 72 mm
Weight	450 g
Protection class	IP65

Part Number	Temperature range	Steps	Hysteresis	Step diff.	Hidden setpoint
DBET-22	-30...+30 °C	1	2...15 K	-	-
DBET-22U	-30...+30 °C	1	2...15 K	-	X
DBET-23	-30...+30 °C	1	1 K	-	-
DBET-22/2	-30...+30 °C	2	1 K	2...5 K	-
DBET-26	0...60 °C	1	2...15 K	-	-
DBET-27	0...60 °C	1	1 K	-	-
DBET-26U	0...60 °C	1	2...15 K	-	X
DBET-26/2	0...60 °C	2	1 K	2...5 K	-
DBET-22/2U	-30...+30 °C	2	1 K	2...5 K	X
DBET-23U	-30...+30 °C	1	1 K	-	X
DBET-26/2U	0...60 °C	2	1 K	2...5 K	X
DBET-27U	0...60 °C	1	1 K	-	X

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DUCT THERMOSTAT, IP54

A range of high quality duct thermostats.

Technical data	
Sensor element	Liquid-fi lled coiled copper bulb with 200 mm protection spring and mounting bracket
Switch capacity	TZ090U: NC 16 (6) A, 250 V AC, NO 6 (4) A, 250 V AC / TZR6585: NC 16 (2,5) A, 250 V AC, NO 0,5 A, 250 V AC
Insertion length	185 / Ø 21 mm
Dimensions	108 x 70 x 72 mm
Protection class	IP54

Part Number	Temperature range	Hysteresis	Max. bulb temp.	Function	Hidden setpoint
TZ090U	0...90 °C	4±1 K	120 °C	With SPDT contact	X
TZR6585	65...85 °C	20±5 K	125 °C	Manual maximum reset	-

ACCESSORIES

Part Number	Description
DBZ-25	Spiral protection bracket for capillary

Note: the thermostats are supplied with spiral protection bracket model DBZ-25.
The device can only be riarmed if the temperature falls below the setpoint minus the hysteresis value.

CLAMP-ON THERMOSTAT, IP65

Thermostats for use in cooling, heating and ventilation systems.

Technical data	
Sensor element	Liquid-fi lled coiled copper bulb for contact
Switch capacity	15 (8) A, 24...250 V AC
Protection class	IP65 class I
Dimensions	108 x 70 x 72 mm

Part Number	Temperature range	Max. bulb temperature	Function
DBAT-3	0...60 °C	75 °C	-
DBAT-3U	0...60 °C	75 °C	X
DBAT-5	20...90 °C	95 °C	-
DBAT-5U	20...90 °C	95 °C	X

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IMMERSION THERMOSTATS, IP 54

Temperature control in pipes for heating, cooling and air conditioning systems, boilers and heaters.
Temperature monitoring and safety protection with manual reset (2 stages).

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Technical data	
Sensor element	Copper bulb with 120 mm brass pocket (on request with 200 mm length)
Dimensions	108 x 70 x 72 mm (2 stage models: 132 x 88 x 70 mm)
Protection class	IP54
Ambient temperature	-35...+65 °C
Ambient humidity	10...90 % RH (non-condensing)
Storage temperature	-20...+70 °C
Storage humidity	< 95 % RH
Switch capacity	With SPDT contact: NC 250 V AC 16 (6) A /NO 250 V AC 6 (4) manual maximum reset: NC 250 V AC 16 (2,5) A / NO 250 V AC 0,5 A

Part Number	Temp. range 1	Temp. range 2	Hysteresis range 1	Hysteresis range 2	Max. bulb temp.	Function	Hidden setpoint
TV090	0...90 °C	-	4 ± 1 K	-	120 °C	with SPDT contact	-
TV090U	0...90 °C	-	4 ± 1 K	-	120 °C	with SPDT contact	X
TVR6585	65...85 °C	-	20 ± 5 K	-	125 °C	manual maximum reset*	-
TVR90110	90...110 °C	-	20 ± 5 K	-	125 °C	manual maximum reset*	-
TV09090U	0...90 °C	0...90 °C	4 ± 1 K	4 ± 1 K	120 °C	with SPDT contact	X
TV090UR85	0...90 °C	65...85 °C	4 ± 1 K	20 ± 5 K	120 °C	manual maximum reset with SPDT contact*	-

* (unit can be reset only if temperature drops below the setpoint minus the hysteresis)

ACCESSORIES

Part Number	Description
DBZ-30/14	Brass pocket 120 mm, ø external 8 mm, ø internal 7 mm, connection R 1/2"
DBZ-40/14	Brass pocket 108 mm, Ø external 16 mm, Ø internal 15 mm, connection R 1/2"
DBZ-31/14	Stainless steel pocket AISI 304, 120 mm, ø external 9 mm, ø internal 7 mm, connection R 1/2"
DBZ-41/14	Stainless steel pocket AISI 304, 120 mm, Ø external 16 mm, Ø internal 15 mm, connection R 1/2"

Note: the thermostats are supplied with standard pocket models DBZ-30/14 and DBZ-40/14.

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IMMERSION THERMOSTAT, IP65

High quality immersion thermostats for use in cooling, heating and ventilation systems.

Technical data	
Sensor element	Liquid-fi lled coiled copper bulb
Switch capacity	15 (8) A, 24...250 V AC
Dimensions	108 x 70 x 72 mm
Protection class	IP65
Ambient temperature	-35...+65 °C
Ambient humidity	10...90 % RH (non-condensing)
Storage temperature	-40...+70 °C
Storage humidity	< 95 % RH
Contacts	Microswitches with SPDT contacts (heat/cool)
Casing	Bayblend® base, ABS cover

Part Number	Temp. Range	Hysteresis	Max Bulb Temp.	Hidden Setpoint
DBTV-1	-30...+30 °C	2...20 K	60 °C	-
DBTV-2U	-30...+30 °C	1 K	60 °C	X
DBTV-7	0...+60 °C	2...20 K	75 °C	-
DBTV-7U	0...+60 °C	2...20 K	75 °C	X
DBTV-8	0...+60 °C	1 K	75 °C	-
DBTV-8U	0...+60 °C	1 K	75 °C	X
DBTV-11	50...120 °C	1 K	140 °C	-
DBTV-16	+20...+90 °C	2...20 K	100 °C	-
DBTV-17	20...90 °C	1 K	100 °C	-
DBTV-17U	20...90 °C	1 K	100 °C	X
DBTV-18	20...90 °C	manual maximum reset	100 °C	-
DBTV-18U	20...90 °C	manual maximum reset	100 °C	X

ACCESSORIES

Part Number	Description
DBZ-16/14	Brass pocket 120 mm, Ø external 10 mm, Ø internal 8,5 mm, connection R 1/2”
DBZ-17/14	Stainless steel pocket AISI 304, 120 mm, Ø external 10 mm, Ø internal 8,5 mm, connection R 1/2”

Note: The thermostats are supplied with standard pocket model DBZ-16/14. The device can only be reset if the temperature falls below the setpoint minus the hysteresis.

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Room, duct/pipe mounting

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FAN-COIL ROOM-TEMPERATURE CONTROLLER, ELECTROMECHANICAL - TSHK 621...643

Enables controlling of HVAC components according to needs.

Features

- Variable room temperature as setpoint based on printed temperature scale
- Changeover from heating to cooling via switch or type of connection
- ON/OFF toggle switch for mains voltage, plus other slide switches for operating mode and fan, depending on the type
- More constant room temperature due to thermal feedback
- Suitable for wall mounting or fitting on recessed junction boxes
- Setpoint adjuster with mechanical min. and max. limitation of the setting range
- Two-point pulsed activation
- Individual unitary temperature control in residential and business rooms for activating, for example, electric heating systems, thermal actuators, or fans or cooling units in air-conditioning systems.

Part Number	Description
TSHK621F001	Fan-Coil roomthermostat;230V;3switches;H/C 2pipes
TSHK642F001	Fan-Coil roomthermostat;230V;2switches;H/C 2pipes
TSHK643F001	Fan-Coil roomthermostat;230V;3switches;H/C; 4pipes

FAN-COIL ROOM-TEMPERATURE CONTROLLER, HEATING/COOLING SEQUENCE - TSHK 670...672

Enables controlling of HVAC components according to needs.

Features

- Variable room temperature as setpoint based on printed temperature scale
- Gradual transition from heating to cooling through sequence characteristic
- Variants with master switch plus slide switch for the fan
- Suitable for wall mounting or fitting on recessed junction boxes
- Electronics unit and switching relay
- Setpoint adjuster with mechanical min. and max. limitation of the setting range
- Quasi-continuous temperature control
- 2-point pulsed activation
- Individual unitary temperature control in residential and business rooms for activating, for example, electric heating systems, thermal actuators, or fans or cooling units in air-conditioning systems.

Part Number	Description
TSHK670F001	Fan-Coil roomthermostat;230V;sequence;no switch
TSHK672F001	Fan-Coil roomthermostat;230V;sequence;on/off;3fan

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FAN-COIL ROOM-TEMPERATURE CONTROLLER, WITH DIGITAL DISPLAY - TSHK 681, 682

Enables controlling of HVAC components according to needs and enables automatic switching off in downtimes.

Features

- LCD of the room temperature or setpoint, with two buttons (±) for adjusting the setpoint
- Output for heating or cooling depending on connection type, or change in direction of operation with external switch
- With main switch for mains power supply and slide switch for three fan speeds
- Suitable for wall mounting or fitting on recessed junction boxes
- Electronics unit and switching relay
- Quasi-continuous temperature control
- 2-point pulsed activation
- Individual unitary temperature control in residential and business rooms for activating e.g. electric heating systems, thermal actuators, or fans or cooling units in air-conditioning systems.

Part Number	Description
TSHK681F001	Fan-Coil roomthermostat;230V;LCD display;H/C2pipes
TSHK682F001	Fan-Coil roomthermostat;230V~;LCDdisplay;H/C4pipes

Universal thermostats/ frost monitors – Pipe/Duct

UNIVERSAL THERMOSTAT – TUC SERIES

Control, monitoring and limiting according to needs and with no auxiliary energy.

Features

- Regulates and monitors the temperature of liquids in baths, containers, pipes and ducts
- Variants as temperature monitors (TW), safety temperature monitors (STW), temperature limiters (TB) or safety temperature limiters (STB)
- Thermostat with remote sensor
- Clamp-on thermostat
- Capillary tube thermostat with or without thermowell
- Double thermostat, e.g. as TW and STB
- Certified as per EN 14597 (TUC207F003 and TUC407F001, TUC407F002)
- As per PED 2014/68/EU classified as cat. IV (TUC207F003, TUC407F001 and TUC407F002)
- The shift in the change-over point is minimised due to the temperature compensation.
- Thermowell 100 mm supplied (max. 12 bar)

Part Number	Description
TUC101F003	Universal thermostat TW;-10...50°C;L 1.6m
TUC102F001	Universal thermostat TW;5...30°C;L 0.7m
TUC105F001	Universal thermostat TW;15...95°C;L 0.7m
TUC106F001	Universal thermostat TW;40...120°C;L 0.7m
TUC107F001	Universal thermostat TW50...130°C; L 0.7m
TUC108F001	Universal thermostat TW;80...160°C; L 0.7m
TUC207F003	Safety temperature monitorSTW; 70...130°C; L 1.6m
TUC303F001	Temperature limiter TB;15...60°C; L 0.7m
TUC307F001	Temperature limiter TB;50...130°C; L 0.7m
TUC407F001	Safety temperature limiterSTB; 95?130°C; L 0.7m
TUC407F002	Safety temperature limiterSTB; 95?130°C; KL 0.7m

ROST MONITOR/LIMITER WITH CAPILLARY SENSOR - TFL 201

Avoiding frost damage in heating coils and ventilation ducts.

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Features

- Temperature monitoring in heating coils and air ducts
- Variants as monitors or limiters
- Copper capillary tube
- Switching point can be set internally
- Small switching difference
- With capillary holders made of plastic

Part Number	Description
TFL201F002	Frost monitor; -10?+15°C;L=3m Xsd fixed.
TFL201F022	Frost limiter;-10?+15°C; L=3m
TFL201F102	Frost monitor;-10?+15°C;L=1,5m Xsd fixed
TFL201F602	Frost monitor;-10?+15°C; L=6m Xsd fixed
TFL201F622	Frost limiter;-10?+15°C; L=6m

CONTINUOUS FROST MONITOR WITH CAPILLARY SENSOR - TFL 611

Demand-controlled, large-area monitoring of system components with active capillary sensor

Features

- Records the lowest temperature that occurs for a length of at least 250 mm at any position along the capillary tube
- Used on air side in ventilation and air conditioning units where protective measures must be taken against freezing
- Active capillary sensor for measuring the lowest temperatures in the range 0...15 °C
- Vapour-filled capillary tube and diaphragm system with inductive system of measurement
- Setting range 1...10 °C
- Start-up function
- LED and 7-segment display
- Self-monitoring of sensor line

Part Number	Description
TFL611F201	Continuous frost monitor; 0...15°C; L= 2m
TFL611F601	Continuous frost monitor; 0...15°C; L= 6m

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Humidistats – Pipe/Duct, Room

ROOM HUMIDISTAT - HSC 120

Enables humidity control devices to be switched on according to needs

Features

- Monitoring and regulation of relative air humidity in rooms by controlling fans, drying units and air humidifiers
- Variable relative humidity as setpoint based on printed scale in % rh
- Measurement taken via a measuring element of stabilised synthetic textile tape.
- Controller with fixed switching difference of Xsd

Part Number	Description
HSC120F002	Room humidistat with external setpoint adjuster
HSC120F012	Room humidistat with internal setpoint adjuster

DUCT-MOUNTED HUMIDISTAT – HBC

Enables humidity control devices to be switched on according to needs

Features

- Monitoring and regulation of relative humidity by controlling fans, drying units and air humidifiers
- Temperature-compensated humidity sensor
- Variable relative humidity as setpoint based on printed scale in % rh
- For fitting in a ventilation duct or on a wall
- Includes fixing bracket with seal for duct or wall mounting
- With single-pole change-over contacts and fixed switching difference Xsd
- Immersion depth 130...156 mm; includes fixing bracket

Part Number	Description
HBC111F001	Humidistat for ducts;15-95%rF
HBC112F001	Humidistat for ducts;15-95%rF;2switches

ROOM TRANSDUCER, RELATIVE HUMIDITY AND TEMPERATURE, SURFACE-MOUNTED - EGH 120, 130

Precise measurement of humidity and temperature for energy-efficient control of HVAC installations in buildings.

Features

- Measurement of humidity via a fast, capacitive sensor
- Suitable for direct wall mounting and recessed junction boxes
- Converts the measured values into a continuous analogue signal (0...10 V / 4...20 mA)
- Active measuring element

Part Number	Description
EGH120F041	RH+temp. room transducer;wall mounting;2x4-20mA
EGH120F042	RH+temp. room transducer;wall mounting;2x4-20mA
EGH130F031	RH+temp. room transducer;wall mounting;2x0-10V
EGH130F032	RH+temp. room transducer;wall mounting;2x0-10V

ROOM TRANSDUCER, RELATIVE HUMIDITY AND TEMPERATURE, RECESSED - EGH 681

Precise measuring of relative humidity and temperature for energy-efficient room climate control

Features

- Measures the relative humidity and temperature in rooms
- Fast response time and high precision
- Regulation of the room climate in combination with room automation systems
- Including frame

Part Number	Description
EGH681F031	RH+temp. room transducer;flush mounting;2x0-10V

Pipe/Duct Mounting – SAUTER

DUCT TRANSDUCER, RELATIVE HUMIDITY AND TEMPERATURE - EGH 110...112

Precise measuring of humidity for energy-efficient control of HVAC installations and monitoring energy consumption.

Features

- Measures the relative humidity and temperature in air ducts
- Measurement by means of fast capacitive measuring element
- Active and passive measuring element
- Immersion depth 140 mm
- Mounting flange supplied

Part Number	Description
EGH110F041	RH+temp. duct transducer;2x4-20mA
EGH111F031	RH+temp. duct transducer;2x0-10V+Ni1000
EGH112F031	RH+temp. duct transducer;2x0-10V

DEW POINT MONITOR AND TRANSDUCER - EGH 102

Effective protection from moisture damage and excessive cooling.

Areas of use: Protects against dew formation on chilled ceilings. Controls a regulating unit via a holding relay that interrupts the cooling water flow or increases the cooling water temperature.

Features

- Protects against dew formation on chilled ceilings
- Controls a regulating unit via a holding relay that interrupts the cooling water flow or increases the cooling water temperature
- Best solution for monitoring chilled-ceiling systems
- Measurement taken by a spring-mounted dew point sensor
- Active measuring element
- Variant with external sensor (EGH102F101)
- Holding relay with changeover contacts
- Includes retaining strap for pipes of Ø 10...100 mm and heat-conducting paste

Part Number	Description
EGH102F001	Dew-point monitor+transduc95%rF;24V;0-10V;w/o cable
EGH102F101	Dew-pointmonitor EGH102F101

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Temperature – Pipe/Duct, Room, Outside Temp.

ROOM TEMPERATURE SENSOR, RECESSED - EGT 386, 388, 486, 686, 688

Precise measuring of room temperature for energy-efficient room climate control

Features

- Passive room temperature measurement
- For temperature measurement in dry rooms (e.g. in residential properties, offices and business premises)
- Including frame

Part Number	Description
EGT430F012	Room temp. sensor; wall mounting;Pt100
EGT430F013	Room temp. sensor; wall mounting;Pt100
EGT430F102	Room temp. sensor; wall mounting;Pt1000
EGT430F103	Room temp. sensor; wall mounting;Pt1000

Regin Sensors – Temp, Humidity, Pressure...

REGIN WIRELESS SENSORS

Regin wireless sensors and detectors offer unprecedented flexibility for installation. Ideal for challenging environments like heritage-listed buildings, they can be mounted on virtually any surface.

Perfect for modern offices. Easily adapt to changing layouts with our modular system. Add, remove, or relocate sensors effortlessly to match your evolving workspace.

Key Benefits

- **Unrestricted placement:** Overcome installation challenges in sensitive or complex spaces.
- **Rapid deployment:** Wireless technology means quicker setup and lower costs.
- **Scalable and adaptable:** Ideal for dynamic environments like offices and retail spaces.
- **Reliable performance:** Strong signal range and robust connectivity.
- **Seamless integration:** Compatible with Modbus systems for easy management.

Part Number	Description
DCW	Wireless door contact
EPRW	Wireless electric pulse reader, -10...+50°C, IP30
IRCW	Wireless ir detector for ceiling mounting, 360°
RCW-M32	Wireless receiver with Modbus communication (up to 32 sensors)
TG-R6WE	Wireless outdoor temperature sensor (pt1000 input)
HTRT-5W	Wireless room temperature and humidity sensor, Modbus, 0...100 % RH, Modbus, 0...100 % RH, ±2 % RH @ 0...100 % RH

Regin Room Temperature Transmitter

TEMPERATURE TRANSMITTER FOR ROOM MOUNTING, 0...10 V, IP30 WITH AND WITHOUT MODBUS/DISPLAY

Part Number	Description
TRT5	0...50°c, 0-10v, room mounting
TRT5-D	0...50°c, 0-10v, display, room mounting
TRTC5	0...50°c, Modbus, room mounting
TRTC5-D	0...50°c, display, Modbus, room mounting

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REGIN

TEMPERATURE TRANSMITTER IMMERSION MOUNTING IP65

Part Number	Supply voltage	Temperature range	Output signal	Accuracy
TLT100	18...24 V AC or 18...35 V DC	0...100 °C	0...10 V	± 2°C
TLT100-420	11...30 V DC	0...100 °C	4...20 mA	± 2°C
TLT50	18...24 V AC or 18...35 V DC	-30...+50 °C	0...10 V	± 1.5°C
TLT50-420	11...30 V DC	-30...+50 °C	4...20 mA	± 1.5°C

ADVANCED HUMIDITY AND TEMPERATURE TRANSMITTERS (MODBUS COMPATIBLE)

Accurate control for optimal comfort. High-quality Regin transmitters deliver precise humidity and temperature readings for precise heating and cooling control.

Versatile and reliable. With options for 0-10VDC, 4-20mA, or Modbus output, these transmitters seamlessly integrate into your system. Their IP65 rating ensures durability in various environments.

Real-time monitoring. An optional LCD display provides on-site humidity readings, while Modbus connectivity enables direct integration with your building management system for comprehensive control and data management.

ROOM HUMIDITY AND TEMPERATURE

Part Number	Description
HTRT10A	Hum & temp trans, 10-90% ±3% rh, 0-10v, pt1000, room
HTRT10A-D	Hum & temp trans, 10-90% ±3% rh, 0-10v, pt1000, display, room

Units have 0-10v HUM, 0-10v Temp & PT1000 as standard

ROOM HUMIDITY AND TEMPERATURE WITH MODBUS

Part Number	Description
HTRC10	Hum & temp trans, 10-90% ±2% rh, Modbus, room mounting
HTRC10-D	Hum & temp trans, 10-90%% ±2% rh, display, Modbus, room mounting

OUTDOOR HUMIDITY AND TEMPERATURE

Part Number	Description
HTWT10	Hum & temp trans, 0-100% ±2%, 0-10v, wall mount
HTWT10-420 **HVS**	Hum & Temp trans, 0-100% ±2%, 4-20ma, WALL MOUNT Radiation shield for outdoor mounting intended for htwt10 (-420)

DUCT HUMIDITY AND TEMPERATURE

Part Number	Description
DTTH	Hum & temp trans, 0-100% ±2% rh, 0-10v, duct mount
DTTH-420	Hum & Temp Trans, 0-100% ±2% RH, 4-20ma, duct mount

ROOM THERMOSTAT WITH TOUCH DISPLAY AND COMMUNICATION FOR FAN-COIL APPLICATIONS 230 V AC ON/OFF OUTPUTS.

REGIN

Slim electronic fan-coil thermostat for room temperature control. Automatic or manual change-over between heating and cooling. The thermostat has a function for 3-speed fan control (for fan coil), a built-in temperature sensor, backlit touch display, and an input for a hotel key card or an occupancy detector.

Features

- **Backlit touch display with 230 V AC supply voltage**
- **3 built in relays for 3-speed fan and 2 for heat/ cool control**
- **Available in white or black**
- **Various control modes for reduced energy consumption**
- **Input for presence detector and/or key card**
- **Flush mounting for low profile installations**
- **Modbus communication**

Part Number	Description
RCFD-230C	RAL 9003, Signal white
RCFD-230C-BLACK	RAL 9005, Jet black

REGIN DUCT THERMOSTAT IP65

Part Number	Description	Auto Reset Range
MTID60	IP65 rigid stem 15amp 230v	0C-60C
HMH	Single stage, ip54, 10amp rated	10-100C

FROST THERMOSTAT – REGIN IP65

FT60 is a high-quality electromechanical frost protection thermostat for use in cooling, heating and ventilation systems.

Part Number	Description
FT60	Control range -10 to +10°C, IP65 protection, Auto reset, 6m capillary

PRESIGO (PDT...) - DIFFERENTIAL PRESSURE TRANSMITTERS WITH ANALOGUE OUTPUTS.

Single or dual port differential pressure transmitters with one or two analogue outputs. The transmitter can be configured for 0-10 V or 4-20 mA output signal. Selectable working range.

Features

- Uses a sensor technology that offers very high accuracy and excellent long-term stability
- Small and compact design
- Easy installation
- Less wiring is required
- Operating temperature -25...+50°C
- Two outputs for either 0...10 V or 4...20 mA
- Can be mounted vertically or horizontally

Part Number	Description
PDT12	Differential Pressure Transmitter, 0-1250PA, 0-10V
PDT25	Differential Pressure Transmitter, 0-2500PA, 0-10V
PDT75	Differential Pressure Transmitter, 0-7500PA, 0-10V
PDT12S25-2	Differential Pressure Transmitter, 0-1250PA/0-2500PA, 2 SENSOR ELEMENT0-10V
PDT12S75-2	Differential Pressure Transmitter, 0-1250PA/0-7500PA, 2 SENSOR ELEMENT 0-10V

REGIN

PRESIGO (PDT...-C) - DIFFERENTIAL PRESSURE TRANSMITTERS WITH COMMUNICATION DIFFERENTIAL PRESSURE TRANSMITTERS WITH TWO UNIVERSAL INPUTS AND COMMUNICATION VIA EXOLINE OR MODBUS.

Features

- Uses a sensor technology that offers very high accuracy and excellent long-term stability
- Easy installation
- Expands the controller by up to four inputs
- Operating temperature -25...+50°C
- Can be mounted vertically or horizontally

Part Number	Description
PDT12C	Differential pressure transmitter, 0-1250pa, modbus, 2ui
PDT12C-2	Differential pressure transmitter, dual 0-1250pa /0-1250pa modbus, 2uii
PDT12S25C-2	Differential pressure transmitter, dual 0-1250pa/0-2500pa modbus, 2ui
PDT12S75C-2	Differential pressure transmitter, dual 0-1250pa /0-7500pa modbus, 2ui
PDT25C	Differential pressure transmitter, 0-2500pa, modbus, 2ui
PDT25C-2	Differential pressure transmitter, dual 0-2500pa /0-2500pa modbus, 2ui
PDT75C	Differential pressure transmitter, 0-7500pa, modbus, 2ui

DMD - DIFFERENTIAL PRESSURE TRANSMITTER WITH DISPLAY

Differential pressure transmitter for use in air and noncorrosive gases. For control of dampers, frequency converters, VAV systems etc.

Features

- Four measuring ranges
- LED Display

Part Number	Description
DMD	Differential pressure transmitter with display
DMD-C	Differential pressure transmitter controller c/w display

IBC stock over 2500 products ready for immediate delivery

2005

Serving the (BMS & HVAC) Industry since 2005

ACTIVE TEMPERATURE SENSORS

The AX-TE-xTX-W range of active temperature sensors. Offering an advanced, versatile method for the monitoring of temperature, in a variety of applications.

Jumper selectable output ranges cover an incredible -50°C to +400°C and the unit offers both 0-10V & loop powered 4-20mA output in the same unit.

Part Number	Description
AX-TE-DTX-W	Duct - 150mm Probe
AX-TE-FTX-W	Flying Lead Active Sensor
AX-TE-ITX-W	Immersion - 150mm Probe
AX-TE-ITX-W-65	Immersion - 65mm Probe
AX-TE-OTX-W	Outside Air
AX-TE-RTX-W	Room
AX-TE-STX-W	Pipe Strap - 2 Meter

RH & T TRANSMITTERS

The AX-RHT-3 range of RH&T Transmitters are designed for high accuracy relative humidity and temperature measurement, having selectable analogue output of both values.

Part Number	Description
AX-RHT-S	Room version 2.5% Acc
AX-RHT-D3	Duct version 3% acc
AX-RHT-O3	Outside version 3% acc
AX-RHT-S2	Room version 2% acc
AX-RHT-D2	Duct version 2% acc
AX-RHT-O2	Outside version 2% acc
AX-RHT-SD	Room version 2.5% Acc c/w display

Thermistor type version also available on request

ALCO FROST THERMOSTATS

Frost thermostat with 6 metre capillary sensor. Application for frost protection for example on air-conditioning systems to prevent the build up of ice on filters, fans and coils etc.

Part Number	Description
TSA-A2P	Auto reset
TSA-R2P	Manual reset

Speak with our team about any large projects

Order before 2pm for same day dispatch

alre

ALRE RANGE. 15AMP RATED SPDT. IP43 PROTECTION AUTO RESET SINGLE THERMOSTAT AUTO RESET

In heating technology this unit is used in boiler systems or in thermal accumulators, heating transfer stations and heating transfer systems. Used in ventilation technology as for monitoring supply air or as a limiter in electrical heating registers.

Part Number	Range (°C)	Diff (°C)	Length (mm)
RTKSA-001-100	0-50	1.3	120
RTKSA-001-200	0-120	3	100
RTKSA-001-301	20-150	3.3	100

NOTE: thermostats as standard complete with pocket. Stainless steel available on request.

ALRE RANGE. 15AMP RATED SPDT. IP43 PROTECTION SINGLE THERMOSTAT MANUAL RESET

In heating technology this unit is used in boiler systems or in thermal accumulators, heating transfer stations and heating transfer systems. Used in ventilation technolgy as for monitoring supply air or as a limiter in electrical heating registers.

Part Number	Range (°C)	Length (mm)
RTKSA-002-410	30-110	100

ALRE RANGE. 15AMP RATED SPDT. IP43 PROTECTION DUAL THERMOSTAT

In heating technology this unit is used in boiler systems or thermal accumulator systems, heating transfer stations and heating transfer systems.

Part Number	Range (°C)	Limit (°C)	Reset
RTKSA 014-210	0-120	0-120	Thermal
RTKSA 013-210	0-120	20-150	Hand

IMMERSION TEMPERATURE SENSORS

A direct output temperature sensor used for measuring liquid temperature in pipes.

Part Number	Description
IBC-TB/TI-S	Trend/Honeywell/Thorn/New Cylon Systems 10k3a1
IBC-TT-PO-521	With Pocket

Compatability with other manufacturers is available

DUCT TEMPERATURE SENSORS

A direct output temperature sensor used for measuring air temperature in ducts.

Part Number	Description
IBC-TB/TI-S	Trend/Honeywell/Thorn/New Cylon Systems 10k3a1

Compatability with other manufacturers is available

OUTSIDE TEMPERATURE SENSORS

A direct output temperature sensor used for measuring air temperature in ducts.

Part Number	Description
IBC-TB/TO	Trend/Honeywell/Thorn/New Cylon Systems 10k3a1

Compatability with other manufacturers is available

CLAMP-ON TEMPERATURE SENSORS

A direct output temperature sensor used for measuring pipe temperature.

Part Number	Description
IBC-TB/TC	Trend/Honeywell/Thorn/New Cylon Systems 10k3a1

Compatability with other manufacturers is available

FLYING LEAD TEMPERATURE SENSORS

A low cost direct output temperature sensor used for measuring air temperature, i.e. in fan-coil units etc.

Part Number	Description
IBC-TF	Trend/Honeywell/Thorn/New Cylon Systems Standard 2m Version 10k3a1

Compatability with other manufacturers is available

ROOM/SPACE TEMP. SENSOR

A direct output temperature sensor used for measuring air temperature in indoor spaces.

Part Number	Description
IBC-TB/TS	Trend/Honeywell/Thorn/New Cylon Systems 10k3a1

Compatability with other manufacturers is available

Sontay®

RH-S - SPACE RELATIVE HUMIDITY AND TEMPERATURE SENSOR

A valuable feature of this sensor is when in 3-wire mode it automatically detects what the controller input is set to, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers that can be inadvertently set incorrectly. 2-wire loop powering selectable via DIP switch. It also provides on board LED indication for power status and fault find.

FEATURES

- High stability and reliability
- Auto detection 0-10Vdc or 4-20mA outputs, loop powering via DIP
- Direct thermistor option available
- LCD display and user interface options
- Easy installation: Two part, push-in spring terminal blocks

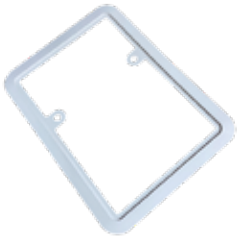
Part Number	Description
RH-S	Space Mounted T and RH Sensor ±3%
RH-S-EN	Space Mounted Enthalpy and Dewpoint Sensor

Part Number	Description
RH-S-AH	Space Mounted T and RH Sensor High Accuracy ±2%

Part Number	Description
-T*	Direct resistive temperature output
-SP	11-1kΩ/0-10kΩ setpoint
-MS	Momentary switch
-LCD	Integral LCD display
-TR	Custom temperature output range
-5V	0 - 5V option
-BLK**	Black space housing

Suffixes (add to part code)

ACCESSORIES



Part Number	Description
DECOR	Decorators trim plate
GASKET	Insulating gasket (pack of 10)

Note:
1. *-T version uses a thermistor element for direct measurement of temperature. Please specify thermistor type when ordering.
2. When using the -x option, they are not compensated for internal heating.
3. Please see pages 83-85 for Thermistor Types and Compatibility Chart.
4. RH-S-EN outputs only enthalpy and dewpoint values.
5. **Plain Front, no user interface options available (SP/MS/LCD)

Speak with our team about any large projects

Order before 2pm for same day dispatch

RH - DUCT, WALL, OUTSIDE AND REMOTE PROBE RELATIVE HUMIDITY AND TEMPERATURE SENSOR

A valuable feature of this sensor is when in 3-wire mode it automatically detects what the controller input is set to, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers that can be inadvertently set incorrectly. 2-wire loop powering selectable via DIP switch. It also provides on board LED indication for power status and fault find. provided.

Part Number	Description
RH-D	Duct Mounted T and RH Sensor ±3%
RH-D-AH	Duct Mounted T and RH Sensor High Accuracy ±2%
RH-D-EN	Duct Mounted Enthalpy and Dewpoint Sensor

Part Number	Description
RH-W	Wall Mounted T and RH Sensor ±3%
RH-W-AH	Wall Mounted T and RH Sensor ±2%
RH-W-EN	Wall Mounted Enthalpy and Dewpoint Sensor

Part Number	Description
RH-O	Outside Mounted T and RH Sensor ±3%
RH-O-AH	Outside Mounted T and RH Sensor ±2%
RH-O-EN	Outside Mounted Enthalpy & Dewpoint Sensor

Part Number	Description
RH-R	Remote probe T and RH Sensor ±3%
RH-R-AH	Remote probe T and RH Sensor ±2%
RH-R-EN	Remote probe Enthalpy & Drewpoint Sensor

Part Number	Description
-T*	Direct resistive temperature output
-TR	Custom temperature output range
-LCD	Integral LCD display

Suffixes (add to part code)

ACCESSORIES

Part Number	Description
-DPA	Duct probe adjustment flange (for RH-D only)

Note:
1. * -T version uses a thermistor element for direct measurement of temperature.
Please specify thermistor type when ordering.
2. Please see pages 85-88 for Thermistor Types and Compatibility Chart.
3. -EN versions only output enthalpy and dewpoint values.

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RH-SH - HUMIDISTATS

RH-SH humidistats are designed for the on/off control of humidification and dehumidification equipment, or the initiation of alarms or override controls.

Part Number	Description
Room Humidistats	
RH-SH-1R	Single-stage, concealed setpoint adjust.
RH-SH-1RE	Single-stage, exposed setpoint adjust.

Duct Humidistats	
RH-SH-1D	Single-stage, concealed setpoint adjust.
RH-SH-1DE	Single-stage, exposed setpoint adjust.

ST - GENERAL PURPOSE THERMOSTATS

Sontay's range of thermostats are well suited for a number of applications of temperature control or safety cut-out in pipe work systems, calorifiers, duct work systems, green houses and many other installations. They all have the set-point adjustment under the cover to prevent unauthorised tampering.

THEY ARE AVAILABLE IN TWO TYPES

Control thermostats (auto reset): With an adjustable set point, adjustable differential and auto rest, which provides a switched output to a heater or controller.

Safety thermostats (manual reset): With an adjustable set-point, fixed differential and manual reset, which provides high limit cut-out on boilers etc.

Part Number	Description	
Capillary		
ST-C-01M	50 to 140°C	Manual Reset
RH-SH-1RE	Single-stage, exposed setpoint adjust.	
Duct		
ST-D-01A	-35 to +35°C	Auto Reset
ST-D-02A	0 to 90°C	Auto Reset
ST-D-03A	-30 to +30°C	Auto Reset
ST-D-04M	0 to +90°C	Manual Reset
Immersion		
ST-I-01A	0 to 120°C	Auto Reset
ST-I-02M	0 to 110°C	Manual Reset
ST-I-03M	20 to 90°C	Manual Reset
Wall		
ST-W-01A	-30 to +30°C	Auto Reset
Strap-on		
ST-S-02A	0 to 90°C	Auto Reset

ACCESSORIES

Part Number	Description
ST-IMM-PKT	Replacement stainless steel pocket (ST-I range only)

ALCO FROST THERMOSTAT

Frost thermostat with 6 metre capillary sensors. Application for frost protection, for example on air-conditioning systems to prevent the buildup of ice on filters, fans and coils etc.

- Control Range: -30 to +15°C
- Switch Rating: 10 AMP AT 230v
- Protection: IP44
- Housing Dimension: 85mm x 75mm x 39mm

Part Number	Description
TSA-A2P	Auto reset
TSA-R2P	Manual reset

Accessories: Packet of clips for capillary thermostat (pack of 5)

ST-FRE - CAPILLARY FROST THERMOSTATS

The ST-FRE range of frost thermostats provide a switch output based on the average temperature detected along a two or six metre capillary sensor. A common application is for frost protection on fresh air intakes or airconditioning systems, to prevent the icing up of filters, fans and coils. The capillary is fixed in a matrix across

Part Number	Description
IP44 Thermostat	
ST-FRE-1	Auto reset, 6m capillary, Frost Thermostat
ST-FRE-2	Manual reset, 6m capillary, Frost Thermostat
ST-FRE-3	Auto reset, 2m capillary, Frost Thermostat
ST-FRE-4	Manual reset, 2m capillary, Frost Thermostat

Part Number	Description
IP65 Housing and Thermostat	
ST-FRE-1-IP65	Auto reset, 6m capillary, Frost Thermostat
ST-FRE-2-IP65	Manual reset, 6m capillary, Frost Thermostat
ST-FRE-3-IP65	Auto reset, 2m capillary, Frost Thermostat
ST-FRE-4-IP65	Manual reset, 2m capillary, Frost Thermostat

ACCESSORIES

Part Number	Description
ST-DFK	Pack of six additional plastic capillary fixing clips
BRK	Mounting bracket for ST-FREx

ST-TY - SPACE THERMOSTATS

The ST-TY series of wall mounting space thermostats are suitable for heating and/or cooling and frost protection applications.

Part Number	Description	Range
ST-TY92-C1	Heating Thermostat	5 to 35°C
ST-TY92-C1F	Frost Thermostat	–5 to +15°C
ST-TY92-C3	Heating or Cooling Thermostat	5 to 35°C
ST-TY92-C3T	Heating or Cooling Tamperproof	5 to 35°C

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TT-518 - THIMBLE SENSORS

Thimble temperature sensors are used for measuring air temperature in indoor spaces. The sensing element is mounted in an attractive 'thimble' enclosure for surface mounting, typically on a backplate or a ceiling tile.

Part Number	Description
Passive Output	
TT-518-A	10K3A1, Trend, Cylon, Distech, Heatmiser
TT-518-C	20K6A1, Honeywell
TT-518-M	2.2K3A1, Johnson Controls
Active Output	
TT-518-CVO	Selectable: 4-20mA/0-10Vdc * Output ranges: -10 to +40°C or -10 to +110°C (selectable)
TT-518-CVO-C	Selectable: 4-20mA/0-10Vdc (custom temp, scaling) *, Scaled to customer specification in the range of -10 to +60°C

Compatability with other manufacturers is available

Part Number	Description
-AL	Aluminium thimble
-SS	Stainless steel thimble
-BLK	Black Thimple
-BR	Brass thimble
-5M	5m cable length
-LSZH	Low Smoke Zero Halogen option

Suffixes (add to part code)

Note:
* These units are supplied with the transmitter in the plant housing.

UI-500 - INTERFACE OPTIONS

INDIVIDUAL SOLUTIONS

In addition to our standard range of sensors we are able to manufacture user interface equipment to your specifications. Typically this would be a single or twin gang plate styled to match other equipment on a project. We can fit a large range of devices to UI-500 products including sensors, setpoint adjustments and LCDs.

UI-AA-I-F - ALARM ANNUNCIATORS

The UI-AA-I-F is used in conjunction with one analogue or VFC signals to provide local audible and visual alarm facilities.

Part Number	Description
UI-AA-1-F	1-channel Interface Panel

Speak with our expert BMS engineers today

Online training available please speak with our team

TT-D - DUCT SENSORS

The TT-D are used to measure air temperature in ducts. The sensing element is fitted into a stainless steel probe. A flange plate is available for adjustment of penetration depth (order as TT-DFP).

Part Number	Description
Passive Output	
TT-D-A	10K3A1, Trend, Cylon, Distech
TT-D-C	20K6A1, Honeywell
TT-D-M	2.2K3A1, Johnson Controls
Active Output	
TT-D-CVO	Selectable: 4-20mA/0-10Vdc Output ranges: -10 to +40°C or -10 to +110°C (selectable)
TT-D-CVO-C	Selectable: 4-20mA/0-10Vdc (custom temp. scaling), Scaled to customer specification in the range of -10 to +100°C

Compatability with other manufacturers is available

ACCESSORIES

Part Number	Description
TT-DFP	Duct flange plate

Part Number	Description
-65	65mm Probe length
-250	250mm Probe length

Suffixes (add to part code)

TT-DA - DUCT AVERAGING SENSORS

The TT-DA temperature sensors are used for measuring temperature in ducts where an average reading across the air flow is required. Sensing elements are housed in a nylon tube, and spaced at intervals along the standard 2.2m length.

Part Number	Description
Passive Output	
TT-DA-A	10K3A1, Trend, Cylon, Distech
TT-DA-C	20K6A1, Honeywell
TT-DA-G	Ni1000A/TCR (LAN1), Siemens
TT-DA-M	2.2K3A1, Johnson Controls
Active Output	
TT-DA-CVO	Selectable: 4-20mA/0-10Vdc Output ranges: -10 to +40°C or -10 to +110°C – selectable
TT-DA-CVO-C	Selectable: 4-20mA/0-10Vdc (custom temp. scaling), Scaled to customer specification in the range of -10 to +100°C

Compatability with other manufacturers is available

Part Number	Description
-5M	5m cable length

Suffixes (add to part code)

Sontay®

Passive Output

Passive Output

Passive Output

Suffixes (add to part code)

TT-O - OUTSIDE AIR SENSORS

The TT-O range are use for measuring outside air temperature. The sensors are housed in IP65 rated enclosures. The TT-O should always be situated in a sheltered position on a north facing wall.

Part Number	Description
TT-O-A	10K3A1, Trend, Cylon, Distech
TT-O-C	20K6A1, Honeywell

Compatability with other manufacturers is available

TT-OR - OUTSIDE AIR SENSORS WITH RADIATION SHIELD

The TT-OR has the element fitted into a PTFE radiation shield, designed to provide fast response times to changes in outside air temperature and to protect the element from the effects of direct sunlight.

Part Number	Description
TT-OR-A	10K3A1, Trend, Cylon, Distech
TT-OR-C	20K6A1, Honeywell

Compatability with other manufacturers is available

TT-I - IMMERSION SENSORS

Immersion sensors are used for measuring the temperature of liquids in pipework. The sensing element is housed in a stainless steel probe fitted to an IP65 rated enclosure, for direct mounting into TT-PO-521 or TT-PO-HP range of stainless steel pockets

Part Number	Description
TT-I-A	10K3A1, Trend, Cylon, Distech
TT-I-C	20K6A1, Honeywell

Compatability with other manufacturers is available

Part Number	Description
-65	65mm probe length
-100	100mm probe length
-250	250mm probe length

TT-PO - IMMERSION SENSOR POCKETS

POCKETS THAT CAN WITHSTAND HIGHER PRESSURES AND FLOW RATES

TT-PO-521 and TT-PO-HP range of stainless steel pockets are for use with immersion sensors TT-I and TT-IH. The two part welded TT-PO-521 pockets are intended for low flow applications. They may be used in applications such as sumps or storage tanks or low flowing water in pipes.

For applications requiring installation in high flowing water, the TT-PO-HP should be used.

Part Number	Description	
TT-PO-521-65	Stainless Steel Immersion Pocket	65mm Pockets
TT-PO-521-100	Stainless Steel Immersion Pocket	100mm Pockets
TT-PO-521	Stainless Steel Immersion Pocket	150mm Pockets
TT-PO-HP	High Performance Stainless Steel Immersion Pocket	
TT-PO-521-250	Stainless Steel Immersion Pocket	250mm Pockets
TT-PO-HP-250	High Performance Stainless Steel Immersion Pocket	250mm Pockets

TT-C - CLAMP-ON SENSORS

The TT-C is used to measure pipe temperature, the sensor is housed in a 50mm long probe with two METERS of PTFE 2-core cable as standard connecting the probe to an IP65 housing for termination.

Part Number	Description
Passive Output	
TT-C-A	10K3A1, Trend, Cylon, Distech
TT-C-C	20K6A1, Honeywell

Compatability with other manufacturers is available

ACCESSORIES

Part Number	Description
BAND	Additional Metal Band

Part Number	Description
-5M	5m cable length

Suffixes (add to part code)

TT-555 - FLYING LEAD SENSORS

The TT-555 is used to measure air temperature in fan-coil units as well as many other applications. The standard cable length is two metres of 2-core screened cable with a 5 meter option. Longer lengths can be made to order.

Part Number	Description
Passive Output	
TT-555-A	10K3A1, Trend, Cylon, Distech
TT-555-C	20K6A1, Honeywell
TT-555-M	2.2K3A1, Johnson Controls
Active Output	
TT-555-CVO	Selectable: 4-20mA/0-10Vdc * Output ranges: -10 to +40°C or -10 to +110°C (selectable)
TT-555-CVO-C	Selectable: 4-20mA/0-10Vdc (custom temp. scaling) *, Calibration to customer specification in the range of -10 to +60°C

* These units are supplied with the transmitter in the plant housing.

Compatability with other manufacturers is available

Part Number	Description
-5M	5m cable length
-LSZH	Low Smoke Zero Halogen option
-R	Cap potted (waterproof)

Suffixes (add to part code)

Sontay®

TT-CD - DIRECT CLAMP-ON SENSORS

The TT-CD clamp-on sensor is used for direct connection to measure pipe temperature. The sensing element is enclosed in a moulded nickel contact bar on the underside of the main housing.

Part Number	Description
Passive Output	
TT-CD-A	10K3A1, Trend, Cylon, Distech
Active Output	
TT-CD-CVO	Selectable: 4-20mA/0-10Vdc Output ranges: -10 to +40°C or -10 to +110°C (selectable)
TT-CD-CVO-C	Selectable: 4-20mA/0-10Vdc (custom temp. scaling), Calibration to customer specification in the range of -10 to +100°C

Compatability with other manufacturers is available

ACCESSORIES

Part Number	Description
BAND	Additional Metal Band

TT-S - SPACE SENSOR

This range of innovative space sensors is designed to meet the exacting standards of today's architects, specifiers and building owners.

Part Number	Description
Passive Output	
TT-S-A	10K3A1, Trend, Cylon, Distech
Active Output	
TT-S-ACT	Selectable: 4-20mA/0-10Vdc, output range 0 to 40°C
TT-S-ACT-TR	**Selectable: 4-20mA/0-10Vdc, custom temp. scaling between -10 to +50°C**

Compatability with other manufacturers is available

Part Number	Description
-SP	2-wire, 11-1kΩ/0-10Ω setpoint
-MS	Momentary switch
-LCD *	Integral display
-LEDG **	24V Green LED
-BLK ***	Black housing

Suffixes (add to part code)

* Only available on -ACT types
** Not available on -ACT types
*** Plain front, no user interface options available (SP/MS/LCD/LEDG)

ACCESSORIES

Part Number	Description
DECOR	Decorators trim plate
GASKET	Insulating gasket (pack of 10)

TT-BB - BLACK BULB SENSOR

Comfort temperature measurement can be best achieved by taking into account the radiant effect of surfaces within the controlled space. The comfort temperature is specified as the average of the conductive temperature and the radiant temperature.

Part Number	Description
Passive Output	
TT-BB-A	10K3A1, Trend, Cylon, Distech

Compatability with other manufacturers is available

Part Number	Description
-SP	2-wire, 11-1kΩ/0-10Ω setpoint
-MS	Momentary switch
-LEDG	24V Green LED
-BLK *	Black housing

Suffixes (add to part code)

* Plain front, no user interface available (SP/MS/LCD/LEDG)

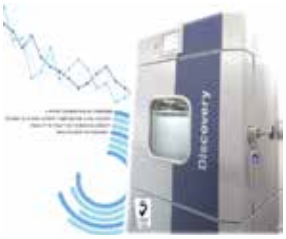
ACCESSORIES

Part Number	Description
DECOR	Decorators trim plate
GASKET	Insulating gasket (pack of 10)

TT-CAL - CALIBRATION

In house calibration is available for Sontay's RH range of sensors using our state of the art environmental chamber. Sontay can provide test certificates for 3-point calibration, with additional points if required -CVO & -ACT types ONLY.

Part Number	Description
TT-CAL	3-Point calibration at 15, 25 & 35°C
TT-CAL-ADP	Additional calibration point, select between 0 & 70°C



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REGIN

Light & Occupancy

REGIN MOTION DETECTORS

Motion detector with pulse detecting function that minimises the risk of false triggering. Adjustable on/off delays and change-over relay.

Technical data	Description
Supply voltage	24 AC/DC
Alarm relay	200 mA, 24 V AC/DC, potential-free, change-over relay
Current consumption	5 mA
Temperature range	-20...+50 °C
Ambient humidity	Max. 95 % RH
Protection class	IP20

Part Number	Mounting	Detection area
IR24-P	Wall	15 m, 110° angle
IR24-PC	Ceiling	Height x 2.5 = coverage diameter, 25° angle

LIGHT LEVEL AND OCCUPANCY DETECTORS

AXIO

A range of low cost Light Level and Occupancy Sensors for surface, flush and wall mounting. There are switched live and volt free output variants the light level can be switched off if required. Mains and low voltage variants.

Part Number	Description
AX-OCF-230F	Switched live output, 230v, flush mounted
AX-OCF-230S	Switched live output, 230v, surface mounted
AX-OCF-230W	Switched live output, 230v, wall mounted
AX-OCF-230-FVF	VFC output, 230v, flush mounted
AX-OCF-230-SVF	VFC output, 230v, surface mounted
AX-OCF-24-FVF	VFC output, 24v, flush mounted
AX-OCF-24-SVF	VFC output, 24v, surface mounted

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LL - LIGHT LEVEL SENSORS

Our range of light level sensors output a linear 0-10Vdc signal representing the lux level at the sensor element. This is typically used in lighting strategies to optimise energy efficiency through dimming and/or disabling of lights as required.

The LL-P-V has two selectable ranges of 10 to 2000 and 10 to 10,000. The LL-C-V has a fixed range of 10 to 2000 lux.

Part Number	Description
LL-P-V	External Light Level Sensor

Technical data	
Sensor reference	Photo-diode
Accuracy	±5% across range
Ranges (selectable)	0 to 2000 Lux 10 to 10,000 Lux
Output	0-10Vdc
Supply	24Vac/dc
Dimensions	125 x 105 x 85mm
Protection	IP65

Part Number	Description
LL-C-V	Ceiling Mounted Internal, Light Level Sensor

Technical data	
Sensor reference	Photo-diode
Accuracy	±5% across range
Ranges (selectable)	10 to 2000 Lux
Output	0-10Vdc
Supply	24Vac/dc
Dimensions	76mm (dia.) x 95mm (H)
Protection	IP30

LL-C-M - LIGHTING AND OCCUPANCY CONTROLLER

Designed to give savings over uncontrolled lighting. A passive infra-red detector monitors occupancy through moving body heat and a photosensitive device monitors light level. This will ensure that lighting is only switched on when the area covered is occupied and the light level is too low for normal working conditions.

Part Number	Description
LL-C-M	230Vac. flush ceiling mounted light level and occupancy controller

Sontay®

OC - OCCUPANCY DETECTORS

Using passive infra-red detection, the OC-x-LV range of occupancy detectors monitors occupation through moving body heat which activates the internal SPDT relay.

The OC-C-LVN is for flush mounting through a false ceiling using the clips provide. An LED indicates detection, this flashes every 2 seconds on detection. The LED wil be off when no occupancy is detected.

Part Number	Description
OC-C-LVN	Ceiling Mounted, PIR Occupancy Detector

The OC-W-LV can be directly fixed to a wall or mounted using the angled bracket supplied.

Part Number	Description
OC-W-LV	Wall Mounted, PIR Occupancy Detector

The OC-C-M is an active motion detector for direct ceiling mounting. It emits high-frequency electro-magnetic wave (5.8GHz). It detects the change in echo from even the slightest movement in its detection zone.

Part Number	Description
OC-C-M	Ceiling Mounted, Microwave Occupancy Detector

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Air Monitor
Precision Airflow Measurement
An ONICON Brand

Air Pressure & Velocity

VELTRON III Compatible Sensor

FAN-EVALUATOR

Airflow Measuring Station

The FAN-E is a multi-point, self-averaging Pitot traverse station with integral air straightener-equalizer honeycomb cell, capable of continuously measuring fan discharges or ducted airflow with an accuracy of 2% or better.

he FAN-E derives its high degree of measurement accuracy from a combination of precision sensor locations, honeycomb airflow processing, pneumatic averaging of a large number of sensed airflow pressures, and patented "symmetrical averaging" (Patent No. 3,685,355), which requires that all stages in the averaging process occur at a point where there is a balanced array of sensors present, thereby assuring that each sensed pressure is given the same "equal weight" in the averaging process as other sensed pressures.

VELTRON III Compatible Sensor

S.O.A.P.

Static Outside Air Probe

To optimise the performance of the S.O.A.P., it must be located away from all structures and obstacles of sufficient size to create a wind induced pressure envelope. Typical locations are on an elevated position in an outdoor parking lot, in a below ground recess (landscaped or lawn area), away from buildings, in a below ground location like a parking garage with non-forced ventilation, or on a rooftop mounted pole sufficiently elevated to be outside any anticipated wind induced pressure envelope.

The perforations located on the entering air edges of the parallel plates act as a means of diffusing the entering airflow to minimize the effect of non-horizontal flow on the sensor performance, thereby permitting entry flows with approach angles up to 60° from the horizontal without affecting the accuracy of the pressure measurement. The perforations located near the center of the bottom plate opposite the signal connection serve to relieve the venturi effect that will develop with higher airflow rates (winds) through parallel plates, thereby permitting non-pulsating sensing in the presence of high wind gusts.

Accurate airflow measurement for demanding applications

Speak with our team about any bespoke requirements from Air Monitor

VELTRON III TRANSMITTER

The VELTRON III Pressure & Airflow Transmitter is a multi-functional, dual-channel transmitter specifically designed for HVAC airflow measurement applications. The flexible design can be combined with any differential or static pressure measurement probes, stations, piezo rings, or traverse style fan inlet probes.

The VELTRON III uses an application specific tailored array of precision transducers to provide the best turndown and accuracy needed for today's high-performance buildings. The unique transducer design eliminates the need for periodic re-zeroing common with traditional differential pressure-based technologies.

Each VELTRON III comes individually calibrated with all settings and outputs preconfigured for the application. Outputs include native BACnet or MODBUS and up to four programmable analogue outputs for airflow, temperature, velocity, differential pressure, or absolute ambient pressure.

Typical Applications Include Dual-Channel or Single Channel Systems for:

Building Airflow Measurement	Room Pressurisation
• **Supply Ducted Air Flow** • **Return Ducted Air Flow** • **Single or Dual Fan Systems** • **Summation or Subtraction of Air Flow**	• Fan Discharge Plenum Pressure • Multiple Room Pressure Average Sensing • Large Duct Pressure • Positive and Negative Space Pressurisation (coming soon)

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AV - MULTI-POINT AIR VELOCITY PROBES

The AV-EP and the AV-MPS velocity probes are used to ensure that recommended flow rates for public buildings and industrial plants are achieved. They are used with either the PA-DPT, PA-65x, PA-699 or PA-267 Air Differential Pressure Sensor of an appropriate range.

Part Number	Description
AV-EP-100	100mm - Multi-point Probe (ABS)
AV-EP-200	200mm Multi-point Probe (ABS)
AV-EP-300	300mm Multi-point Probe (ABS)
AV-EP-400	400mm Multi-point Probe (ABS)
AV-EP-500	500mm Multi-point Probe (ABS)
AV-EP-600	600mm Multi-point Probe (ABS)
AV-MPS-700	To suit duct size of 600-700mm
AV-MPS-800	To suit duct size of 700-800mm
AV-MPS-1000	To suit duct size of 750-1000mm
AV-MPS-1250	To suit duct size of 1000-1250mm

PA-699 - MULTI-RANGE AIR DP SENSOR

Sontay's range of field selectable multi-range differential pressure transmitters, incorporate a proven ceramic fulcrum lever technology for pressure measurement. The PA-699 has three field selectable ranges in one unit, providing versatility for a multitude of applications.

Part Number	Description
PA-699-01	±30, ±50 & ±100Pa, 4-20mA Multi Range, Bi-directional
PA-699-02	0 to 30, 50, 100Pa, 4-20mA Multi Range
PA-699-04	0 to 100, 300, 500Pa, 4-20mA Multi Range
PA-699-06	0 to 500, 1000, 1600Pa, 4-20mA Multi Range
PA-699-08	0 to 1600, 2500, 5000Pa, 4-20mA Multi Range

ACCESSORIES

Part Number	Description
DFK	Duct fixing kit
TEE	Tee piece air pressure (pack of 10)
PITOT	Aluminum Pitot Tubes (Pair)
PA-TUBE-CLEAR	PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-BRK	DIN-rail bracket
PA-699-CAL *	Calibration certificate

* This option must be specified at time of sensor order. They are built to order and not available ex-stock.

Part Number	Description
-V	0-10V voltage output
-LCD	Integral LCD option

Suffixes (add to part code)

Sontay®

PA-DPT - MULTI-RANGE AIR DIFFERENTIAL PRESSURE TRANSMITTER

The PA-DPT differential pressure transmitter is ideal for measuring filter conditions, as well as many other applications in ventilation/air conditioning systems in buildings, laboratory's and clean rooms (air and non-corrosive gases). Featuring field-selectable output signals (3-wire 4-20mA, 0-10Vdc or 2-10Vdc) and 8 pressure ranges, unidirectional or bi-directional via jumpers. An optional LCD display is also available.

Part Number	Description
PA-DPT-01	±30, ±50 & ±100Pa, 4-20mA Multi Range, Bi-directional
PA-DPT-01-HA	0 to 30, 50, 100Pa, 4-20mA Multi Range
PA-DPT-02	0 to 100, 300, 500Pa, 4-20mA Multi Range

Part Number	Description
-LCD	Integral LCD display

Suffixes (add to part code)

PA-65 - MULTI-CONFIGURABLE AIR DP SENSOR

The PA-65-x pressure transducers sense differential or gauge (static) pressure and convert this pressure difference to a proportional electrical output for either field selectable unidirectional or bi-directional pressure ranges. The PA-65-x series is offered with field selectable ranges and analogue outputs of 0 to 5Vdc, 0 to 10Vdc, or 4 to 20mA.

Part Number	Description
PA-65-0	0 to 50, 100, 150, 200Pa bi-directional ±50, ±100, ±150, ±200Pa
PA-65-1	0 to 250, 500, 750, 1000Pa bi-directional ±250, ±500, ±750, ±1000Pa
PA-65-2	0 to 750, 1500, 2250, 3000Pa bi-directional ±750, ±1500, ±2250, ±3000Pa

Part Number	Description
-CL	Clear Lid (LCD visible)
-S	Static pressure probe

Suffixes (add to part code)

ACCESSORIES FOR BOTH PA-DPT & PA-65

Part Number	Description
DFK	Duct fixing kit
TEE	Tee piece air pressure (pack of 10)
PITOT	Aluminum Pitot Tubes (Pair)
PA-TUBE-CLEAR	PVC tube 8mm o/d x 1.5mm wall, 30m reel

NOTES: A duct fixing kit (DFK) is supplied with the sensor, consisting of 2m of 5mm i/d plastic tubing, 2 x pitot tubes and 4 x fixing screws.

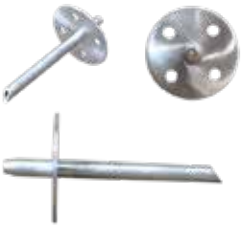
PA-267 - AIR DP SENSORS

The PA-DPT differential pressure transmitter is ideal for measuring filter conditions, as well as many other applications in ventilation/air conditioning systems in buildings, laboratory's and clean rooms (air and non-corrosive gases). Featuring field-selectable output signals (3-wire 4-20mA, 0-10Vdc or 2-10Vdc) and 8 pressure ranges, unidirectional or bi-directional via jumpers. An optional LCD display is also available. Sensor types 01 & 02 have manual re-zero facility whereas the 01-HA version has an auto zero function for automatic zero point calibration making it a virtually maintenance free sensor.

Part Number	Description	
PA-267-25	0 to 25Pa	4-20mA Transmitter
PA-267-50	0 to 50Pa	4-20mA Transmitter
PA-267-100	0 to 100Pa	4-20mA Transmitter
PA-267-300	0 to 300Pa	4-20mA Transmitter
PA-267-500	0 to 500Pa	4-20mA Transmitter
PA-267-1000	0 to 1000Pa	4-20mA Transmitter
PA-267-1600	0 to 1600Pa	4-20mA Transmitter
PA-267-2500	0 to 2500Pa	4-20mA Transmitter
PA-267-3000	0 to 3000Pa	4-20mA Transmitter

ACCESSORIES

Part Number	Description
DFK	Duct fixing kit
TEE	Tee piece air pressure (pack of 10)
PITOT	Aluminum Pitot Tubes (Pair)
PA-TUBE-CLEAR	PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-267-CAL *	Calibration certificate



Part Number	Description
-V	0-10V voltage output
-B	Bi-directional
-AH	High accuracy
-LCD *	Integral LCD display

Suffixes (add to part code)

* These options must be specified at time of sensor order. A duct fixing kit (DFK) is supplied with the sensor, consisting of 2m, 5mm i/d plastic tubing, 2 x pitot tubes and 4 x fixing screws.

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PA-DPS - AIR DP SWITCH

These are highly sensitive air differential pressure switches. suitable for providing an indication of fan status and 'dirty filter' conditions. The switching setpoint is adjusted by means of a knob mounted under the main cover. Units are supplied complete with a duct fixing kit.

Part Number	Description	
IP54 Housing		
PA-DPS-88	0 to 25Pa	4-20mA Transmitter
PA-DPS-83	0 to 50Pa	4-20mA Transmitter
PA-DPS-85	0 to 100Pa	4-20mA Transmitter
PA-DPS-90	0 to 300Pa	4-20mA Transmitter
PA-DPS-91	0 to 500Pa	4-20mA Transmitter
PA-DPS-92	0 to 1000Pa	4-20mA Transmitter

ACCESSORIES

Part Number	Description
PA-DPS-B	Right angled mount bracket (PA-DPS-88 only)

Part Number	Description	
IP65 Housing		
PA-DPS-90W	0 to 25Pa	4-20mA Transmitter
PA-DPS-91W	0 to 50Pa	4-20mA Transmitter
PA-DPS-92W	0 to 100Pa	4-20mA Transmitter
PA-DPS-94W	0 to 300Pa	4-20mA Transmitter

ACCESSORIES

Part Number	Description
DFK	Duct fixing kit
TEE	Tee piece air pressure (pack of 10)
PITOT	Aluminum Pitot Tubes (Pair)
PA-TUBE-CLEAR	PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel

NOTE: A duct fixing kit (DFK) is supplied with the switch, consisting of 2m of 5mm i/d plastic tubing, 2 x pitot tubes and 4 x fixing screws.

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Liquid Level, Flow & Pressure

SAUTER
Creating Sustainable Environments.

DSA: PRESSURE SWITCH

Control and monitoring according to needs and with no auxiliary energy.

Features

- For regulating and monitoring pressure in liquids, gases and vapours
- Especially suitable for applications in compact installations
- Upper switching point can be adjusted
- Fixed switching difference, no hysteresis setting is necessary
- Sealable
- Pressure sensor made of brass for non-aggressive media

Part Number	Description
DSA140F002	Pressure monitor0,5...2,5 bar, brass
DSA143F002	Pressure monitor0,5...6 bar, brass
DSA146F002	Pressure monitor1...10 bar, brass

SPECIALLY DESIGNED PRESSURE LIMITER - DSL, DSH

Control and monitoring according to needs and with no auxiliary energy

Features

- Switching point can be adjusted
- Sealable
- Pressure sensor made of brass for non-aggressive media (DSL)
- Pressure sensor made of stainless steel for aggressive media (DSH)
- Locking type: With falling pressure (DSL) or with rising pressure (DSH)
- SIL 2 certified as per IEC 61508
- Approved for marine applications (GL and LR certified)

Part Number	Description
DSL140F001	Pressure limiter;min0-2,5bar;brass
DSL143F001	Pressure limiter;min0-6bar;brass
DSL152F001	Pressure limiter;min6-16bar;brass
DSH127F001	Pressure limiter;max-1-5bar; stainless
DSH143F001	Pressure limiter;max0,5-6bar; stainless
DSH146F001	Pressure limiter;max1-10bar; stainless
DSH152F001	Pressure limiter;max2-16bar; stainless
DSH158F001	Pressure limiter;max5-25bar; stainless
DSH170F001	Pressure limiter;max15-40bar; stainless

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PRESSURE MONITORS AND PRESSURE SWITCHES - DSB, DSF

Control and monitoring according to needs and with no auxiliary energy.

Features

- For regulating and monitoring pressure in liquids, gases and vapours
- Adjustable lower switching point
- Adjustable switching difference
- Sealable
- SIL 2 certified as per IEC 61508
- Pressure sensor made of brass for non-aggressive media (DSB)
- Pressure sensor made of stainless steel for aggressive media (DSF)
- Approved for marine applications (GL and LR certified)

Part Number	Description
DSB138F001	Pressure monitor0-1,6bar;brass
DSB140F001	Pressure monitor0-2,5bar;brass
DSB143F001	Pressure monitor0-6bar;brass
DSB143F931	Pressure monitor0-6bar;brass
DSB146F001	Pressure monitor0-10bar;brass
DSB146F931	Pressure monitor0-10bar;brass
DSB152F001	Pressure monitor6-16bar;brass
DSB158F001	Pressure monitor0-25bar;brass
DSB158F931	Pressure monitor0-25bar;brass
DSB170F001	Pressure monitor5-40bar;brass
DSB170F931	Pressure monitor5-40bar;brass
DSF125F001	Pressure monitor-1-1,5bar; stainless
DSF127F001	Pressure monitor-1-5bar; stainless
DSF135F001	Pressure monitor0-0,6bar; stainless
DSF138F001	Pressure monitor0-1,6bar; stainless
DSF140F001	Pressure monitor0-2,5bar; stainless
DSF143F001	Pressure monitor0-6bar; stainless
DSF146F001	Pressure monitor0-10bar; stainless
DSF146F931	Pressure monitor0-10bar;stainless
DSF152F001	Pressure monitor0-16bar; stainless
DSF158F001	Pressure monitor0-25bar; stainless
DSF170F001	Pressure monitor15-40bar; stainless

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HEAVY-DUTY PRESSURE SWITCH - DFC 17B, 27B

Control and monitoring according to needs and with no auxiliary energy.

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Features

- For regulating and monitoring pressure in liquids, gases and vapours
- Especially suitable for installations subject to vibrations
- Contact rating 1 mA/6 V to 10 A/400 V
- Gold-plated silver contacts, vibration-proof snap-action switch with single-pole change-over switch
- Upper and lower switching points can be set independently of each other
- Sealable
- Splashproof
- DFC17B**F001: Pressure sensor made of brass for non-aggressive media
- DFC27B**F002: Pressure sensor made of stainless steel for aggressive media

Part Number	Description
DFC17B54F001	Pressostat;brass-sensor;_0-2.5b
DFC17B58F001	Pressostat;brass-sensor;_0-6.0b
DFC17B59F001	Pressostat;brass-sensor;_-1..5b
DFC17B76F001	Pressostat;brass-sensor;_0-10b
DFC17B78F001	Pressostat;brass-sensor;_0-16b
DFC17B79F001	Pressostat;brass-sensor;_16-32b
DFC17B96F001	Pressostat;brass-sensor;_0-25b
DFC17B97F001	Pressostat;brass-sensor;_25-50b
DFC17B98F001	Pressostat;brass sensor;_0-40b
DFC27B26F002	Pressostat;stainl.sensor;_-1..2,5b
DFC27B43F002	Pressostat;stainl.sensor;_0.5-6.0b
DFC27B46F002	Pressostat;stainl.sensor;_1-10b
DFC27B52F002	Pressostat;stainl.sensor;_2-16b

DIFFERENTIAL PRESSURE SWITCH - DSD

Control and monitoring of differential pressure according to needs and with no auxiliary energy

Features

- For monitoring the differential pressure in liquids, gases and vapours
- For use in, for example, filter technology and plant and machine engineering
- Differential pressure setting ranges from 0.06 to 6 bar
- Up to 80 °C media temperature
- High repeat precision
- High overload protection
- Can be used in all neutral media, such as heating water, neutral gases, oils etc.
- Long serviceable life
- With fitting bracket

Part Number	Description
DSD134F102	Differential pressure switch
DSD137F002	Differential pressure switch
DSD140F002	Differential pressure switch
DSD143F002	Differential pressure switch

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SAUTER Flow and Pressure

PRESSURE TRANSMITTER - DSU, DSI

Simple conversion of pressure to proportional standard signal

Features

- For measuring pressure in liquids, gases and vapours
- Sturdy device with ceramic diaphragm
- High precision
- High positive pressure protection
- High vibration resistance
- Low hysteresis
- Standard signal 2...10 V or 4...20 mA
- Pressure sensor made of stainless steel for aggressive media
- With standard plug as per DIN EN 175301-803-A

Part Number	Description
DSU203F002	Pressure transducer; 24V AC/DC;0-2.5b; 0-10V
DSU206F002	Pressure transducer; 24V AC/DC;0-6.0b; 0-10V
DSU210F002	Pressure transducer; 24V AC/DC;0-10b; 0-10V
DSU216F002	Pressure transducer; 24V AC/DC;0-16b; 0-10V
DSU225F002	Pressure transducer; 24V AC/DC;0-25b; 0-10V
DSI203F002	Pressure transducer; 24V DC;0-2.5b; 4-20mA
DSI206F002	Pressure transducer; 24V DC;0-6.0b; 4-20mA
DSI210F002	Pressure transducer; 24V DC;0-10b; 4-20mA
DSI216F002	Pressure transducer; 24V DC;0-16b; 4-20mA
DSI225F002	Pressure transducer; 24V DC;0-25b; 4-20mA

DIFFERENTIAL PRESSURE TRANSMITTER - DSDU, DSDI

Simple conversion of pressure differences to proportional standard signal

Features

- For measuring pressure differences in liquids, gases and vapours
- Sturdy device with ceramic diaphragm
- For use in filter technology, heating systems etc.
- Analogue signal 0...10 V or 4...20 mA
- Differential pressure measuring range from 0...6 bar
- 24 V~/= supply voltage
- With fitting bracket
- Standard plug as per DIN EN 175301-803-A

Part Number	Description
DSDI101F021	Diff. pressure transducer;24V AC/DC; 0-1.0b; 4-20mA
DSDI103F021	Diff. pressure transducer;24V AC/DC; 0-2.5b; 4-20mA
DSDI106F021	Diff. pressure transducer;24V AC/DC;0-6.0b; 4-20mA
DSDU101F021	Diff. pressure transducer;24V AC/DC;0-1.0b; 0-10V
DSDU103F021	Diff. pressure transducer;24V AC/DC;0-2.5b; 0-10V
DSDU106F021	Diff. pressure transducer;24V AC/DC;0-6.0b; 0-10V

DIFFERENTIAL PRESSURE TRANSDUCER - EGP 100

SAUTER
Creating Sustainable Environments.

Allows precise measuring of room pressures, duct pressures or volume flows to optimise energy consumption in ventilation systems.

Areas of use: Optimised for applications such as filter monitoring, room or duct pressure monitoring, level monitoring in fluids, actuating frequency converters for fan control and recording volume flow, especially for room air balancing in laboratories.

Features

- Exact measurement of positive, negative and differential pressures in gases
- Optimised for applications such as filter monitoring, room or duct pressure monitoring, level monitoring in fluids, actuating frequency converters for fan control and recording volume flow, especially for room air balancing in laboratories
- Can be ideally combined with XAFP 100 flow probe for precise measurement of volume flow
- Static dual-membrane pressure sensor on capacitive basis
- Can be fitted in any position
- Can be used for dusty air or air polluted with chemicals (not ATEX approved)
- Manufacturer's test certificate ex works
- The measuring range can be adapted optimally to the needs of the application
- Variable zero point and filter time constant to suppress pressure surges in the system
- Display shows the actual value and the signal progression (depending on type)
- Status LED for immediate indication of operating status (depending on type)
- Measuring range can be reduced to one third (depending on type)
- Fitted to either wall or DIN rail (EN 60715)
- Cover that does not require special tools to open

Part Number	Description
EGP100F101	Diff.pressure transducer;±75Pa,0...10V,lin
EGP100F102	Diff.pressure transducer;±75Pa,0...10V,lin,gain
EGP100F112	Diff.pressure transducer;±75Pa,0...10V,lin,gain,Dis
EGP100F201	Diff.pressure transducer;±150Pa,0...10V,lin
EGP100F202	Diff.pressure transducer;±150Pa,0...10V,lin, gain
EGP100F212	Diff.pressure transducer;±150Pa,0..10V,lin,gain,Dis
EGP100F301	Diff.pressure transducer;150Pa,0...10V,lin
EGP100F302	Diff.pressure transducer;150Pa,0...10V,lin,sqr
EGP100F312	Diff.pressure transducer;150Pa,0...10V,lin,sqr,disp
EGP100F401	Diff.pressure transducer;300Pa,0...10V,lin
EGP100F402	Diff.pressure transducer;300Pa,0...10V,lin,sqr
EGP100F412	Diff.pressure transducer;300Pa,0...10V,lin,sqr,disp
EGP100F601	Diff.pressure transducer;1000Pa,0...10V,lin
EGP100F602	Diff.pressure transducer;1000Pa,0...10V,lin,sqr
EGP100F612	Diff.pressure transducer;1000Pa,0..10V,lin,sqr,Disp

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SAUTER
Creating Sustainable Environments.

FLOW PROBE FOR VENTILATION DUCTS - XAFP 100

Efficient recording of air volume flows for demand-controlled ventilation in ventilation and air conditioning systems

Features

- Flow probe for precise and inexpensive recording of differential pressure signals in ventilation and air conditioning systems
- In combination with a square root differential pressure sensor, air volume flows can be reliably recorded and monitored
- Optimised flow profile for accurate measurement of differential pressure signals
- Efficient regulation of applications for demand-controlled ventilation in offices, laboratories, fume cupboards and clean rooms, by combining an air damper and an electronic/pneumatic volume flow controller
- Can be used in atmospheres containing aggressive substances
- Length (396 mm) can be shortened on site if necessary

Part Number	Description
XAFP100F001	Air flow probe for duct systems

AIR-FLOW TRANSDUCER - SVU 100

Enables demand-controlled volume flow control for fume cupboards

Features

- Precise and long-term stable recording of air inflow speeds in fume cupboards with a time constant of <100 ms
- Particularly suitable for fume cupboards with horizontal and vertical front sashes
- Air volume control according to needs for fume cupboards with horizontal and vertical front sashes
- Precise and long-term stable recording of air inflow speeds in fume cupboards
- Reliable detection of reversal of flow direction
- Integrated filter unit that protects against contamination of the sensor
- Dynamic pressure sensor based on thin-film technology
- Fitted to the fume cupboard simply and quickly

Part Number	Description
SVU100F005	Air-flow transducer24V~;0-1m/s;0-10V;v-prop.

SASH SENSOR - SGU 100

Together with ASV115CF152, the VAV compact controller for critical areas, it enables energy-saving and safe air volume control according to needs in fume cupboards.

Features

- Infinitely variable measurement of the position of the vertical front sash on laboratory fume cupboards
- Accurate detection of sash position, with no wear and tear
- Fast control of the air volume; no oscillation
- Easy fitting, preferably on the counterweight of the front sash
- Teach-in function for adjusting the travel of the front sash
- Integrated excess-travel alarm
- Easy to program using the SAUTER CASE Sensors software
- Power cable 2.5 m long, 7 × 0.32 mm2, fixed to housing
- Fitted with halogen-free cable as standard
- Remote access and remote maintenance: Commissioning and service via bus or external push-button
- 3-colour LED status indicator
- Acoustic status and alarm elements (can be deactivated)

Part Number	Description
SGU100F010	Path-measuring transducer;span:0-0,5m;2-10V, SLC
SGU100F011	Path-measuring transducer;span:0-2m;2-10V, SLC

PL-PSA - LIQUID PRESSURE SWITCH

Adjustable pressure switches, suitable for the monitoring of flow failure and proving in pumps, chillers, valves etc. Units have an adjustable setpoint and differential.

Part Number	Description
PL-PSA-1	-0.75 to +3 bar
PL-PSA-2	-0.8 to +1.5 bar
PL-PSA-3	-0.5 to +7 bar

ACCESSORIES

Part Number	Description
PL-PIG	2m of 6mm copper tubing + fitting
BRK	Bracket for PL-PSAx

PL-FD113 - LIQUID DP SWITCH

Liquid differential pressure switch suitable for monitoring flow status across pumps, chillers, valves etc. The switch has an adjustable set point from 0.3 to 4.5 bar with a fixed differential of 0.2 bar.

Part Number	Description
PL-FD113	0.3 to 4.5 bar Liquid DP Switch

ACCESSORIES

Part Number	Description
PL-FD113-PIG	Connection Kit

NOTE:
A mounting bracket is supplied with the switch. The PL-FD113-PIG consist at 2m of 6mm copper tubing and 4 x commpression fittings (¼")

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PL-52X - STATIC PRESSURE SENSORS

The PL-525 static pressure sensors are suitable for use with a large range of liquids and gases compatible with the FPM (Viton) seal. The pressure transmitter is based on proven ceramic technology for exceptional performance speed and reliability. PL-520 pressure sensor is based upon thick film technology where the pressure cell is fully welded. This sensor meets the high burst protection demands and is suitable for a wide range of applications.

FEATURES

- Compact rugged construction
- Negligible temperature influence on accuracy
- IP65 protection
- Electrical terminals and gland to DIN EN175 301-803-A
- Supply short circuit & polarity reversal protection

Part Number	Description	
4-20mA Output (2-wire loop powered)		
PL-525-0.1	0 to 100 mbar	Low Pressure
PL-525-0.2	0 to 200 mbar	
PL-525-0.3	0 to 300 mbar	
PL-525-0.6	0 to 600 mbar	
PL-520-1	0 to 1 bar	
PL-520-1.6	0 to 1.6 bar	
PL-520-2.5	0 to 2.5 bar	
PL-520-4	0 to 4 bar	
PL-520-6	0 to 6 bar	
PL-520-10	0 to 10 bar	
PL-520-16	0 to 16 bar	
PL-520-25	0 to 25 bar	
PL-520-40	0 to 40 bar	

Part Number	Description	
0-10Vdc Output		
PL-525-0.1-V	0 to 100 mbar	Low Pressure
PL-525-0.2-V	0 to 200 mbar	
PL-525-0.3-V	0 to 300 mbar	
PL-525-0.6-V	0 to 600 mbar	
PL-520-1-V	0 to 1 bar	
PL-520-1.6-V	0 to 1.6 bar	
PL-520-2.5-V	0 to 2.5 bar	
PL-520-4-V	0 to 4 bar	
PL-520-6-V	0 to 6 bar	
PL-520-10-V	0 to 10 bar	
PL-520-16-V	0 to 16 bar	
PL-520-25-V	0 to 25 bar	
PL-520-40-V	0 to 40 bar	

ACCESSORIES

Part Number	Description
PL-HS	Pressure Transmitter Heat Sink
PL-525-CAL *	Calibration certificate
PL-520-CAL *	Calibration certificate

NOTE:

1. Heat Sink PL-HS can be used where media has a higher temperature than the sensor allows.
2. *This option must be specified at the time of sensor order. It is built to order and not available ex-stock.

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PL-630-A - DIFFERENTIAL PRESSURE SWITCH

Ideal for flow monitoring and proving applications in heating, ventilating and air-conditioning systems.

Part Number	Description
PL-630-A-0.02	6 to 20 mbar Liquid DP Switch
PL-630-A-0.06	15 to 60 mbar Liquid DP Switch
PL-630-A-0.2	40 to 200 mbar Liquid DP Switch
PL-630-A-1	0.15 to 1 bar Liquid DP Switch
PL-630-A-3	1 to 3 bar Liquid DP Switch
PL-630-A-5.5	2 to 5.5 bar Liquid DP Switch

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ACCESSORIES

Part Number	Description
PL-630-PIG	Connection Kit

NOTE: The PL-630-PIG consist at 2m of 6mm copper tubing and 4 x commpression fittings (2x1/8" + 2x¼")

PL-692 - DIFFERENTIAL PRESSURE SENSOR

For high accuracy and close control applications, the PL-692 features ceramic sensing technology for exceptional accuracy and reliability. The amplified sensing technologies allow high temperature stability and no creepage associated with mechanical systems.

Part Number	Part Number	Description
4-20mA Output (2-wire loop powered)	0-10Vdc Output	
PL-692-0.1	PL-692-0.1-V	0 to 100 mbar Liquid DP Sensor
PL-692-0.2	PL-692-0.2-V	0 to 200 mbar Liquid DP Sensor
PL-692-0.4	PL-692-0.4-V	0 to 400 mbar Liquid DP Sensor
PL-692-1	PL-692-1-V	0 to 1 bar Liquid DP Sensor
PL-692-2.5	PL-692-2.5-V	0 to 2.5 bar Liquid DP Sensor
PL-692-4	PL-692-4-V	0 to 4 bar Liquid DP Sensor
PL-692-6	PL-692-6-V	0 to 6 bar Liquid DP Sensor
PL-692-10	PL-692-10-V	0 to 10 bar Liquid DP Sensor
PL-692-16	PL-692-16-V	0 to 16 bar Liquid DP Sensor

ACCESSORIES

Part Number	Part Number	Description
PL-692-CAL *	Calibration certificate	

NOTE: A mounting bracket is supplied with the sensor.

* This option must be specified at the time of sensor order. It is built to order and not available ex-stock.

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LS-CAP - CAPACITANCE LEVEL SENSORS

These sensors are designed for level measurement in tanks or sumps providing a 4-20mA output relating to the level of fluid in the tank. The LS-CAP-1 is suitable for conducting liquids such as water whilst the LS-CAP-2 is designed for use with clean, low viscosity non-conducting liquids, such as oil.

Part Number	Description
Conducting Liquids	
LS-CAP-1-0.5	0.5m Probe
LS-CAP-1-1.0	1.0m Probe
LS-CAP-1-1.5	1.5m Probe
LS-CAP-1-2.0	2.0m Probe
LS-CAP-1-2.5	2.5m Probe
LS-CAP-1-3.0	3.0m Probe

Part Number	Description
Non-conducting Liquids	
LS-CAP-2-0.5	0.5m Probe
LS-CAP-2-1.0	1.0m Probe
LS-CAP-2-1.5	1.5m Probe
LS-CAP-2-2.0	2.0m Probe
LS-CAP-2-2.5	2.5m Probe
LS-CAP-2-3.0	3.0m Probe

LS-UT - ULTRASONIC LEVEL TRANSMITTER

The LS-UT provides accurate level measurement where non-contact level monitoring is the preferred option. The output represents the distance between the surface of the liquid being detected and the transmitter. It has a user programmable measuring range of up to 8 meters.

Part Number	Description
LS-UT	Ultrasonic Level Transmitter

LS-541 - FLOAT SWITCH

The LS-541 is intended to monitor the liquid level in a tank or vessel and provides a switched output for local alarm, pump or valve control. The differential between switching is equivalent to approximately 15mm. The unit mounts into 1" BSPT female boss. Access is not required from the inside of the tank.

Part Number	Description
LS-541	1" BSPT Float Switch (horizontal mount)

LS-FL - LIQUID LEVEL FLOAT SWITCHES

The LS-FL series is a range of level switches suitable for single or multi-level applications where access is only available from the top surface or where multiple level sensing is desired from a single penetration. Units consist of a float, which is suspended from a weighted cable. As the liquid level changes, the float follows the surface level, at the same time tilting due to its weighted restraint. Inside the float are a number of micro switches which trigger as the float tips.

Part Number	Description
LS-FL-1H	High Level, Alarm Switch
LS-FL-1L	Low Level, Alarm Switch
LS-FL-2H	Emptying Pump, Control Switch
LS-FL-2L	Filling Pump, Control Switch
LS-FL-2LH	High & Low Level Alarm Switch

Datasheets & install guides available at
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- Solid or split-core
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- Small compact size
- Fixed or field adjustable models
- Input / output isolation via current transformer

SENSORS

- Solid or split-core
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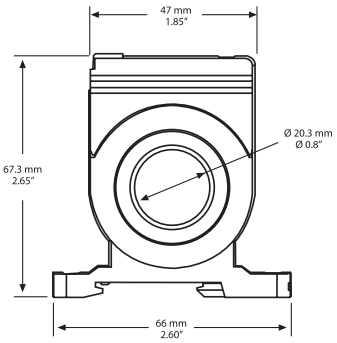
- Average measurements or True RMS
- Input / output isolation via current transformer
- Small compact Size



ENCLOSED SOLID CORE CURRENT SWITCH A/MCS VERSION

ACI "First in Sensor Quality"

Part Number	Description
A/MCS	Current Switch, Fixed Version, Solid Core
A/MCS-A	Current Switch, Adjustable Version, Solid Core

ENCLOSED SOLID CORE CURRENT SWITCH RIB VERSION

Functional Devices, Inc.

Part Number	Description
RIBXKTF	Current Switch Fixed Version, Solid Core
RIBXKTA	Current Switch Adjustable Version Solid Core
RIBXGTA-SCAL	Split Core Unique Self Calibrating Current Switch

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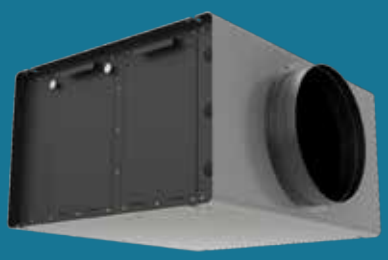

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