Sensors Catalogue

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Make the most of your energy℠

Schneider Electric

Overview

Schneider Electric - the single source for all your sensor and input device needs

This catalogue presents the comprehensive sensor and input device portfolio from Schneider Electric. By dealing with one trusted supplier, our customers save time and money, fully confident of the quality, performance and value of the Schneider Electric offer.

For further information on sensor and input Device products visit the Buildings Business Extranet at: http://extranet.tac.com/ (registration requirement applies) or contact your local Schneider Electric sales office.

Global leader in intelligent building management products, systems and solutions

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in energy and infrastructure, industrial processes, building automation, and data centers/networks, as well as a broad presence in residential applications. Focused on making energy safe, reliable, and efficient, the company's 110,000 plus employees achieved sales of more than $26 billion in 2010, through an active commitment to help individuals and organisations "Make the most of their energy."

Sensor

Temperature	Humidity/Temperature	Air Quality	Flow/Pressure	Light/Multi-Sensor
Outdoor	Outdoor	CO	Duct	Outdoor
Duct	Duct	CO_2	Water Flow	Living Space
Living Space	Living Space	Smoke		Multi
Pipe	Condensation			
Surface Mounted				
Duct Averaging				

Table of Contents

STR100, 200 & 500 Series

We offer a wide range of temperature sensors for Living Space, Duct, Pipe and Outdoor Applications. The range has been designed for ease of installation, pleasing aesthetics, and full compatibility with The various Schneider Electric Systems.

STR100 Series

The STR range of wall modules are designed to provide temperature sensing in a wide variety of Living Space Applications. Contemporary design ensures they are suitable for installation in both new and existing buildings. The STR wall modules are designed to be mounted directly onto the wall or a back box/Jbox. The base plate is designed to be compatible with a wide range of global fixing methods.

TAC Xenta 102-B/102-EF/102-VF/102-ES/103-A/104-A/110-D/121-FC 121-HP/280 / 300 / 401 / 700								
Part number	Model number	Com	Temp Sensor	Mode Indicator	Xenta OP Jack	Setpoint Offset	Bypass Button	Fan Speed Control
004600100	STR100	I/O	1.8kΩ					
004600110	STR100-W	I/O	1.8kΩ					
004600200	STR101	I/O	1.8kΩ	X	X			
004600300	STR102	I/O	1.8kΩ	X	X	X		
004600700	STR103	I/O	1.8kΩ	X	X		X	
004600400	STR104	I/O	1.8kΩ	X	X	X	X	
004600500	STR106	I/O	1.8kΩ	X	X	X	X	A-0-I-II-III
004600800	STR106-B	I/O	1.8kΩ	X	X	X	X (no-icon)	A-0-I-II-III
004600900	STR106-3	I/O	1.8kΩ	X	X	x (max 3°C)	X	A-0-I-II-III
004600600	STR107	I/O	1.8kΩ	X	X	X	X	Auto-off-On

STR200 Series

TAC Xenta 102-AX and I/NET								
Part number	Model number	Com	Temp sensor	Mode indicator	Xenta OP Jack	Setpoint offset	Bypass button	Fan speed control
004603000	STR200	I/O	10kΩ					
004603010	STR200-W	I/O	10kΩ					
004603200	STR202	I/O	10kΩ		X	X	X	

STR500 Series

TAC Xenta 102-AX and I/NET								
Part number	Model number	Com	Temp sensor	Mode indicator	Rj-10 Jack	Setpoint offset	Bypass button	Fan speed control
004606000	STR500	I/O	10kΩ					
004606100	STR502	I/O	10kΩ	X	X	X		
004603200	STR504	I/O	10kΩ	X	X	X	X	

STR600 Series

Satchwell Range of Controllers								
Part number	Model number	Com	Temp sensor	Mode indicator	Xenta OP jack	Setpoint offset	Bypass button	Fan speed control
004604000	STR600D (Drayton)	I/O	30kΩ					
004604100	STR600	I/O	5.02kΩ					
004604200	STR601	I/O	5.02kΩ	X				
004604300	STR602	I/O	5.02kΩ			X		
004604400	STR609	I/O	5.02kΩ	X		X		Auto-Off-On
004604500	STR610	I/O	5.02kΩ	X		X		A-0-I-II-III
004604600	STR611	I/O	5.02kΩ			X		
004604700	STR612	I/O	5.02kΩ			X		
004604800	STR613	I/O	5.02kΩ	X		X		
004604900	STR614	I/O	3k(SVT)					

Please refer to data sheet for full details.

STR300 Series
The STR300 is an electronic living space transmitter that converts a measured temperature into an electric current signal. The transmitter is delivered as a complete unit, comprising a Pt100 classB sensing element and an amplifier mounted in a housing. STR300 is intended either for surface mounting on a wall or installation in a standard switch box in dry, dust free rooms.

Specifications	
Output	0-10 V
Range	0 to 40°C
Accuracy	±0.5°C at 25°C
Supply	15-30 Vdc

Part number	Model number	Description	System
006922000	STR300	Living Space Temperature Transmitter STR300	All

STR150 Series
The STR150 is a wall module optimised for public facilities such as office buildings, hotels, hospitals, schools and shopping malls. Its attractive appearance and well designed interface makes is suitable for any contemporary building. It is easy to operate and install. STR wall modules are mounted directly on the wall or onto a back-box / J-Box and the base plate is designed to be compatible with any global fixing method. The STR150 is equipped with an LCD for displaying information.

Specifications	
Range	5 to 45°C
Accuracy	±0.5°C at 15 to 30°C
Resolution	0.1 t0 0.5°C
Supply	From controller

TAC Xenta 102-ES / 102-EF / 102-VF / 103-A / 104-A / 121-FC / 121-HP				
Part number	Model number	Com	Display	Backlight
004602800	STR150	Special Comms on digital input	X	

Schneider Electric

STR250 & 350/351 Series

STR250 Series

STR wall modules are optimised for public facilities such as office buildings, hotels, hospitals, schools and shopping malls. Their attractive appearance and well designed interface makes is suitable for any contemporary building. They are easy to operate and install. STR wall modules are designed to be mounted directly on the wall or onto a variety of back-boxes / J-Boxes. The plug-in concept makes wiring quick and easy.

The STR250 replaces the I/STAT LCD with regard to major functionality such as indoor and outdoor temperature indication, setpoint adjustment, bypass mode and fan speed commands. The STR250 can be used with the 7728, MRs, and Xenta 102-AX controllers. All local configuration is carried our using an M/STAT module.

Specifications	
Range	5 to 45°C
Accuracy	±0.5°C at 15 to 30°C
Resolution	0.1 t0 0.5°C selectable
Supply	From controller

TAC Xenta 102-AX				
Part number	Model number	Com	Display	Backlight
004603300	STR250	Special Comms	X	
004603310	STR250 No Logo	Special Comms	X	

STR350/351 Series

The STR350 and STR351 use LON communication to display and control the room temperature and fan speed. Optionally, one lighting group and/or one sunblind group can be controlled. The STR350/351 can also be used in TAC Vista Classic configurations, that is, without the need for separate binding tool.

Both models, STR350 and STR351, have an extra analogue (0-10Vdc) input that can be connected to a CO2, relative humidity or occupancy sensor. The STR350 and STR351 are equipped with an LCD display (STR351 with backlight) that displays the different functions of the module. STR wall modules are mounted directly on the wall or onto a backbox.

Specifications	
Range	5 to 45°C
Accuracy	±0.6°C
Resolution	0.1° or 1°C
Supply	24Vac

All TAC Xenta series except TAC Xenta 102-AX				
Part number	Model number	Com	Display	Backlight
004605000	STR350	LONWORKS	X	
004605200	STR350-B	LONWORKS	X	
004605100	STR351	LONWORKS	X	X
004605110	STR351 No Logo	LONWORKS	X	X

STR800 Series Living Space Temperature Sensors

STR800 Series Living Space Temperature Sensors
The STR800 series of living space temperature sensors are designed to be used with the I/A series of controllers and to replace the existing TSMN range.

The introduction of these sensors completes the STR range so a single design style can be offered across the Schneider Electric range.

The products are simple to install and can be directly wall mounted or mounted on to a back box. They are designed for use in any public building, such as offices, hotels, schools or shopping malls. A model selection guide is shown below.

Specifications	
Output	NTC Thermistor, Balco, or Platinum Resistance
Range	0-50°C (32°F to 122°F) Max. 90% RH non-condensing

Full details of the product can be found on the data sheet.
For Accuracy see Appendix A table G.

Part number	Model number	Description	Compare to
004607000	STR800	Living Space temp sensor	TSMN-57011-850
004607100	STR801	Living Space temp sensor w/ASD jack	TSMN-90220-850
004607200	STR802F	Living Space temp w/°F set point Adj. & Asd jack	–
004607210	STR802C	Living Space temp w/°C set point Adj. & Asd jack	–
004607220	STR802WC	Living Space temp w/warmer/cooler set, Point Adj. & Asd jack	–
004607300	STR803	Living Space temp w/bypass & Asd jack	TSMN-90230-850
004607400	STR804F	Living Space temp w/bypass°F set point Adj. & Asd jack	TSMN-90250-850
004607410	STR804C	Living Space temp w/bypass°C set point Adj. & Asd jack	TSMN-90250-852
004607420	STR804WC	Living Space temp w/ bypass/warmer/cooler set point Adj. & Asd jack	–
004607500	STRBKO	Living Space temp sensor	TSMN-81011
004607510	STRPKO	Living Space temp sensor	TSMN-58011

STD100, 200, 500

STD100, 200, 300

STD 100, 200 and 500 temperature sensors are intended for air duct mounting. The STD housing is equipped with a Ø 20mm cut-out for the cable, a 20mm conduit gland nut and a mounting flange.

Accuracy See Appendix A: Tables A, B, C

Part number	Model number	Description	Probe length (mm)	System
5123002010	STD100-50	Duct Temperature Sensor STD100-50	50	TAC Vista, TAC Xenta
5123004010	STD100-100	Duct Temperature Sensor STD100-100	100	TAC Vista, TAC Xenta
5123006010	STD100-150	Duct Temperature Sensor STD100-150	150	TAC Vista, TAC Xenta
5123008010	STD100-200	Duct Temperature Sensor STD100-200	200	TAC Vista, TAC Xenta
5123010010	STD100-250	Duct Temperature Sensor STD100-250	250	TAC Vista, TAC Xenta
5123012010	STD100-300	Duct Temperature Sensor STD100-300	300	TAC Vista, TAC Xenta
5123014010	STD100-400	Duct Temperature Sensor STD100-400	400	TAC Vista, TAC Xenta
5123030010	STD200-50	Duct Temperature Sensor STD200-50	50	TAC I/NET
5123032010	STD200-100	Duct Temperature Sensor STD200-100	100	TAC I/NET
5123034010	STD200-150	Duct Temperature Sensor STD200-150	150	TAC I/NET
5123036010	STD200-200	Duct Temperature Sensor STD200-200	200	TAC I/NET
5123038010	STD200-250	Duct Temperature Sensor STD200-250	250	TAC I/NET
5123040010	STD200-300	Duct Temperature Sensor STD200-300	300	TAC I/NET
5123042010	STD200-400	Duct Temperature Sensor STD200-400	400	TAC I/NET
5123074010	STD500-150	Duct Temperature Sensor STD500-150	150	Andover Continuum
5123078010	STD500-250	Duct Temperature Sensor STD500-250	250	Andover Continuum
5123082010	STD500-400	Duct Temperature Sensor STD500-400	400	Andover Continuum

STD660, 670, 150, 550 Duct Temperature Sensors

STD660

The STD660 temperature sensor is intended for air duct mounting, and has a telescopic probe extendable from 100mm to 300mm. The STD660 housing is equipped with a Ø 20mm cut-out for the cable. A 20mm conduit gland nut and a mounting flange are supplied with the product.

Accuracy See Appendix A: Table F

Part number	Model number	Description	Probe length (mm)	System
5126030000	STD660	Duct Temperature Sensor STD660	100 to 300	Satchwell

STD670

The STD670 temperature sensor is intended for air duct mounting.
The STD670 has a 1.5m fly-lead.

Accuracy See Appendix A: Table F

Part number	Model number	Description	System
5126040000	STD670	Duct Temperature Sensor STD670	Satchwell

STD150, 550

The STD150 and 550 are intended for measuring air temperature in fan coil applications or exhaust ducts.

The sensors, which are made of stainless steel, are delivered with a 2m (6.5 ft.) cable, PVC sheathed overall. Mounting details such as screw and clamp are included with the product.

Accuracy See Appendix A: Tables A, C

Part number	Model number	Description	System
5123058000	STD150	Duct Temperature Sensor STD150	TAC Vista TAC Xenta
5126058400	STD550	Duct Temperature Sensor STD550	Andover Continuum

STD190, 290, 591, 300 Duct Temperature Averaging Sensors

STD190, 290, 591

The STD190, STD290, and STD591 sensors are delivered as complete units, comprising a junction box and a cable on which four sensors are located at 1 metre (3.3 ft.) intervals. The distance from the first sensor to the junction box is 2 metres (6.6 ft.).

The sensors contain four thermistors and is a mean value temperature sensor. The sensor is used for temperature measurement in air ducts. It is intended for mounting on to a grid or on wires suspended across a duct.

Accuracy See Appendix A: Tables D, E

Part number	Model number	Description	System
5123060010	STD190	Average Duct Temperature Sensor STD190	TAC Vista TAC Xenta
5123060020	STD290	Average Duct Temperature Sensor STD290	TAC I/NET
5123086010	STD591	Average Duct Temperature Sensor STD591	Andover Continuum

STD300

STD300 is an electronic temperature transmitter that converts the temperature measured into an electric current signal 4-20 mA. The transmitter is delivered as a complete unit, comprising a stainless steel immersion well, the sensing element and an amplifier, mounted in a housing.

The transmitter is intended for immersion installation and is used for temperature measurement in air ducts. The transmitter shall be connected with a 2-wire cable, which serves both as power supply and for signal transmission.

Specifications	
Output	2-Wire, 4-20 mA
Range	-50 to +50 °C; 0 to 100 °C
Accuracy	±0.4 % of range
Supply	Min. 15Vdc, Max. 36Vdc

Part number	Model number	Description	Probe length (mm)	System
006920141	STD300-300 0/100	Duct Temperature Sensor STD300-300 0/100	300	All
006920121	STD300-300-50/50	Duct Temperature Sensor STD300-300-50/50	300	All

STD400
Temperature Sensors

STD400

The STD400 is an electronic averaging transmitter that converts the average measured temperature into an electric current signal 0-10Vdc. The transmitter is used for temperature measurement in air ducts.

The STD400-04 has an immersion length of 0.4m. Measurement is made at 5 points equally spread over the length. A copper tube protects the 5 measuring points. The tube can be bent to a minimum radius of 50 mm to allow the probe to be shaped across the duct.

For larger ducts use the STD410-30 or STD410-60 transmitters with immersion length of 3m or 6m. Measurements are taken over the entire sensor length. The transmitter is delivered as a complete unit, comprising a junction box with amplifier and sensors.

The transmitters should be connected with a 3-wire cable, which serves both as power supply and for signal transmission.

Specifications	
Output	2-Wire, 4-20 mA
Range	-50 to +50 °C; 0 to 100 °C
Accuracy	±0.4 % of range
Supply	24Vac ±10% or 15-36Vdc

Part number	Model number	Description	Probe length (mm)	System
006920681	STD400-04 0/100	Average Duct Temperature Sensor STD400-04 0/100	400	All
006920701	STD400-04 -50/50	Average Duct Temperature Sensor STD400-04 -50/50	400	All
006920721	STD400-30 0/100	Average Duct Temperature Sensor STD400-30 0/100	3000	All
006920741	STD400-30 -50/50	Average Duct Temperature Sensor STD400-30 -50/50	3000	All
006920761	STD400-60 0/100	Average Duct Temperature Sensor STD400-60 0/100	6000	All
006920781	STD400-60 -50/50	Average Duct Temperature Sensor STD400-60 -50/50	6000	All

STD410
Temperature Sensors

STD410

The STD400 is an electronic averaging transmitter that converts the average measured temperature into an electric current signal 0 - 10Vdc. The transmitter is used for temperature measurement in air ducts.

The STD400-04 has an immersion length of 0.4m. Measurement is made at 5 points equally spread over the length. A copper tube protects the 5 measuring points. The tube can be bent to a minimum radius of 50 mm to allow the probe to be shaped across the duct.

For larger ducts use the STD410-30 or STD410-60 transmitters with immersion length of 3m or 6m. Measurements are taken over the entire sensor length. The transmitter is delivered as a complete unit, comprising a junction box with amplifier and sensors.

The transmitters should be connected with a 3-wire cable, which serves both as power supply and for signal transmission.

Specifications	
Output	3-Wire, 0-10 V
Range	-50 to +50 °C; 0 to 100 °C
Available lengths	0.4m, 3m, 6m
Accuracy	±0.4 % of range
Supply	24Vac ±10% or 15-36Vdc

Part number	Model number	Description	Probe length (mm)	System
006920841	STD410-04 0/100	Average Duct Temperature Sensor STD400-04 0/100	400	All
006920861	STD410-04 -50/50	Average Duct Temperature Sensor STD400-04 -50/50	400	All
006920881	STD410-30 0/100	Average Duct Temperature Sensor STD400-30 0/100	3000	All
006920901	STD410-30 -50/50	Average Duct Temperature Sensor STD400-30 -50/50	3000	All
006920921	STD410-60 0/100	Average Duct Temperature Sensor STD400-60 0/100	6000	All
006920941	STD410-60 -50/50	Average Duct Temperature Sensor STD400-60 -50/50	6000	All

STX140, 120, 520, 122 Immersion Temperature Sensors

STX140

The STX140 is made of polythene tube Ø 10mm and is primarily intended for laying underfloor. Four thermistors are evenly spaced along the length of the tube. The sensor is delivered with a connection cable of two metres.

When laying underground, the thermistor cable should be placed in pipes with a minimum inside diameter of 12mm.

Accuracy See Appendix A: Table D

Part number	Model number	Description	System
5123310000	STX140	Ground Temperature Sensor STX140	TAC Vista TAC Xenta

STX120, 520

The sensor, which is made of stainless steel, is delivered with a 2m or 4m cable PVC sheathed overall. STX120 is intended for measuring water temperature in heating applications, mounted in a well/pocket.

Accuracy See Appendix A: Tables A, D

Part number	Model number	Description	System
5123302000	STX120-200	Immersion Temperature Sensor STX120-200	TAC Vista TAC Xenta
5123304000	STX120-400	Immersion Temperature Sensor STX120-400	TAC Vista TAC Xenta
5123320000	STX520-200	Immersion Temperature Sensor STX520-200	Andover Continuum
5123322000	STX520-400	Immersion Temperature Sensor STX520-400	Andover Continuum

STX122

The STX122 is primarily intended for pipe mounting without a separate pocket in heating coils. The insert pipe is stainless steel. The sensor is delivered with a 2m connecting cable, and has a R1/4" (DN 8) male thread fixing. As standard the sensor is delivered with a separate R1/2" (DN 15) male thread reducing bush.

Accuracy See Appendix A: Table A

Part number	Model number	Description	Probe length (mm)	System
5123306000	STX122-250	Coil Temperature Sensor STX122-250	250	TAC Vista TAC Xenta
5123308000	STX122-400	Coil Temperature Sensor STX122-400	400	TAC Vista TAC Xenta

STP100, 200, 500 Immersion Temperature Sensors for Pockets

STP100, 200, 500

These sensors are designed for immersion mounting in pipe systems with a separate pocket (well). The pocket is sealed, making it easy to replace the sensor if necessary. The STP housing is equipped with a 20mm cable fitting. A 20mm cable gland is supplied. The pocket must be ordered separately.

Accuracy See Appendix A: Table A, B, C

Part number	Model number	Description	Probe length (mm)	System
5123102010	STP100-50	Pipe Temperature Sensor STP100-50	50	TAC Vista, TAC Xenta
5123104010	STP100-100	Pipe Temperature Sensor STP100-100	100	TAC Vista, TAC Xenta
5123106010	STP100-150	Pipe Temperature Sensor STP100-150	150	TAC Vista, TAC Xenta
5123108010	STP100-200	Pipe Temperature Sensor STP100-200	200	TAC Vista, TAC Xenta
5123110010	STP100-250	Pipe Temperature Sensor STP100-250	250	TAC Vista, TAC Xenta
5123112010	STP100-300	Pipe Temperature Sensor STP100-300	300	TAC Vista, TAC Xenta
5123114010	STP100-400	Pipe Temperature Sensor STP100-400	400	TAC Vista, TAC Xenta
5123130010	STP200-50	Pipe Temperature Sensor STP200-50	50	TAC I/NET
5123132010	STP200-100	Pipe Temperature Sensor STP200-100	100	TAC I/NET
5123134010	STP200-150	Pipe Temperature Sensor STP200-150	150	TAC I/NET
5123136010	STP200-200	Pipe Temperature Sensor STP200-200	200	TAC I/NET
5123138010	STP200-250	Pipe Temperature Sensor STP200-250	250	TAC I/NET
5123140010	STP200-300	Pipe Temperature Sensor STP200-300	300	TAC I/NET
5123142010	STP200-400	Pipe Temperature Sensor STP200-400	400	TAC I/NET
5123170010	STP500-50	Pipe Temperature Sensor STP500-50	50	Andover Continuum
5123172000	STP500-100	Pipe Temperature Sensor STP500-100	100	Andover Continuum
5123174010	STP500-150	Pipe Temperature Sensor STP500-150	150	Andover Continuum
5123176010	STP500-200	Pipe Temperature Sensor STP500-200	200	Andover Continuum
5123180010	STP500-300	Pipe Temperature Sensor STP500-300	300	Andover Continuum
5123182000	STP500-400	Pipe Temperature Sensor STP500-400	400	Andover Continuum
5126010000	STP600D	Pipe Temperature Sensor STP600D	112	Drayton

STP660, 120, 620 Temperature Sensors

STP660

The STP660 temperature sensor is intended for immersion mounting in pipe systems with a separate pocket (well), and has a telescopic probe extendable from 100mm to 300mm. This technology makes the product ideal for the HVAC service industry as the probe is adjustable for any size pocket. The tip is primed with heat conductive paste, ensuring that the time constant is optimised. The pocket is sealed, making it easy to replace the sensor if necessary.

The STP housing is equipped with a 20mm cable fitting. A 20mm cable gland is supplied. As there is a choice of both pocket material (brass or stainless steel) and size (120mm or 200mm) for this sensor, the pocket must be ordered separately. See the DWA range in the pocket / wells section of this catalogue.

Accuracy See Appendix A: Table F

Part number	Model Number	Description	Probe length (mm)	System
5126080000	STP660	Pipe Temperature Sensor STP660	100 to 300	Satchwell

STP120, 220, 620

The STP120, 220, 620 temperature sensors are intended for immersion mounting in pipe systems without requiring a pocket (well). This product is for use in fast time constant systems such as district heating applications. The STP housing is equipped with a 20mm cable fitting. A 20mm cable gland is supplied.

Accuracy See Appendix A: Tables A, F

Part number	Model Number	Description	Probe length (mm)	System
5123158010	STP120 –70	Pipe Temperature Sensor STP120-70	70	TAC Vista TAC Xenta
5123160010	STP120 –120	Pipe Temperature Sensor STP120-120	120	TAC Vista TAC Xenta
5123162010	STP120 –220	Pipe Temperature Sensor STP120-220	220	TAC Vista TAC Xenta
5123230000	STP220-70	Pipe Temperature Sensor STP220-70	70	TAC I/NET
5123232000	STP220-120	Pipe Temperature Sensor STP220-120	120	TAC I/NET
5123234000	STP220-220	Pipe Temperature Sensor STP220-220	220	TAC I/NET
5126090000	STP620	Pipe Temperature Sensor STP620	100	Satchwell

STP300
Immersion Temperature Transmitters for Pockets

STP300

The STP300 is an electronic immersion temperature transmitter that converts a measured temperature into an electronic current signal 4-20 mA. The STP300 is designed for immersion mounting in pipe systems with a separate pocket (well). The pocket is sealed, making it easy to replace the transmitter if necessary.

For a new installation the pocket must be ordered separately. The transmitter is intended for measurement of high and low temperatures. The transmitter is connected with a 2-wire cable, which serves both as power supply and for signal transmission. The reading of the measured signal is done over an external load resistance.

Specifications	
Output	2-Wire, 4-20 mA
Range	0/100, 0/160, -50/+50 °C
Accuracy	±0.4 % of range
Supply	Min. 15Vdc, Max. 36Vdc

Part number	Model number	Description	Probe length (mm)
006920241	STP300-100 0/100	Pipe Temperature Sensor STP300-100 0/100	100
006920261	STP300-100 0/160	Pipe Temperature Sensor STP300-100 0/160	100
006920221	STP300-100 -50/50	Pipe Temperature Sensor STP300-100 -50/50	100
006920301	STP300-200 0/100	Pipe Temperature Sensor STP300-200 0/100	200
006920321	STP300-200 0/160	Pipe Temperature Sensor STP300-200 0/160	200
006920281	STP300-200 -50/50	Pipe Temperature Sensor STP300-200 -50/50	200
006920361	STP300-300 0/100	Pipe Temperature Sensor STP300-300 0/100	300
006920381	STP300-300 0/160	Pipe Temperature Sensor STP300-300 0/160	300
006920341	STP300-300 -50/50	Pipe Temperature Sensor STP300-300 -50/50	300
006920421	STP300-400 0/100	Pipe Temperature Sensor STP300-400 0/100	400
006920441	STP300-400 0/160	Pipe Temperature Sensor STP300-400 0/160	400
006920401	STP300-400 -50/50	Pipe Temperature Sensor STP300-400 -50/50	400

Pockets/Wells

Pockets/Wells

The table below provides a list of pockets/wells suitable for use with most pipe sensors and transmitters. For Satchwell pipe sensors use DWA pockets. Note: pockets/wells must be ordered separately.

Part number	Description	Probe length (mm)
9121040000	Pocket STP 50mm Brass	50
9121050000	Pocket STP 50mm Stainless steel	50
9121041000	Pocket STP 100mm Brass	100
9121051000	Pocket STP 100mm Stainless steel	100
9121042000	Pocket STP 150mm Brass	150
9121052000	Pocket STP 150mm Stainless steel	150
9121043000	Pocket STP 200mm Brass	200
9121053000	Pocket STP 200mm Stainless steel	200
9121044000	Pocket STP 250mm Brass	250
9121054000	Pocket STP 250mm Stainless steel	250
9121045000	Pocket STP 300mm Brass	300
9121055000	Pocket STP 300mm Stainless steel	300
9121046000	Pocket STP 400mm Brass	400
9121056000	Pocket STP 400mm Stainless steel	400
9121058000	Satchwell Pocket DWA0001	N/A
9121060000	Satchwell Pocket DWA0002	120
9121062000	Satchwell Pocket DWA0003	200
9121064000	Satchwell Pocket DWA0004	200
9121066000	Satchwell Pocket DWA0005	120

Strap on/Contact Temperature Sensors

STC100, 200, 500, 600

STC strap on temperature sensors are designed for surface pipe mounting. The STC housing is equipped with a 20mm cable fitting.

Accuracy See Appendix A: Tables A, B, C, F

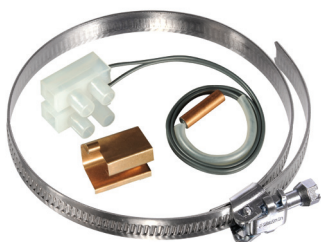| Part number	Model number	Description	System
5123202010	STC100	Contact Temperature Sensor STC100	TAC Vista TAC Xenta
5123206010	STC200	Contact Temperature Sensor STC200	TAC I/NET
5123218010	STC500	Contact Temperature Sensor STC500	Andover Continuum
5126070000	STC600	Contact Temperature Sensor STC600	Satchwell
5126020000	STC600D	Contact Temperature Sensor STC600D	Drayton

STC110, 510

The STC110 and 510 temperature sensors are designed for mounting on pipe systems of max. Ø 100 mm. The temperature sensor is supplied with a connection cable of 2m or 4m.

Accuracy See Appendix A: Tables A, C

Part number	Model number	Description	System
5123210000	STC110-200	Contact Temperature Sensor STC110-200	TAC Vista TAC Xenta
5123212000	STC110-400	Contact Temperature Sensor STC110-400	TAC Vista TAC Xenta
5123236000	STC210-200	Contact Temperature Sensor STC210-200	TAC I/NET
5123238000	STC210-400	Contact Temperature Sensor STC210-400	TAC I/NET
5123220000	STC510-200	Contact Temperature Sensor STC510-200	Andover Continuum

STC120

STC120 is a temperature sensor designed for mounting on a pipe system of heating coils Ø 10-15 mm. The sensor is supplied with a connection cable of 0.25m.

Accuracy See Appendix A: Table A

Part number	Model number	Description	System
5123214000	STC120	Contact Temperature Sensor STC120	TAC Vista TAC Xenta

STC300
Strap On Temperature Transmitters

STC300

STC300 is an electronic pipe contact temperature transmitter that converts the temperature measured into an electronic current signal 4-20 mA. The transmitter is delivered as a complete unit, comprising a pipe clamp, the sensing element and an amplifier, mounted in a housing. The sensor and amplifier are encapsulated in separate units, to protect the electronics from excessive heat. A 2m cable connects the two units.

The transmitter element is intended for external mounting directly on pipes, (max diameter 100 mm) e.g. flow and return water pipes. The transmitter is connected with a 2-wire cable, which serves both as power supply and for signal transmission. The reading of the measured signal is done over an external load resistance.

Specifications	
Output	2-Wire, 4-20 mA
Range	0/100, 0/160, -50/+50 °C
Accuracy	±0.3 °C at 25 °C
Supply	Min. 15Vdc, Max. 36Vdc

Part number	Model number	Description	System
006920041	STC300 0/100	Contact Temperature Sensor STC300 0/100	All
006920061	STC300 0/160	Contact Temperature Sensor STC300 0/160	All
006920021	STC300 -50/50	Contact Temperature Sensor STC300 -50/50	All

STO100, 200, 500, 600, 300 Outdoor Temperature Sensors & Transmitters

STO100, 200, 500, 600

These outdoor sensors are intended for outdoor wall mounting. Variants are available for TAC Vista, TAC I/NET, Andover Continuum and Satchwell systems. The body has a 20mm conduit entry and the product is supplied with a conduit gland.

Specifications	
Range	-40 to +90 °C
Accuracy	See Appendix A: Table A, C, F

Part number	Model number	Description	System
5141100010	STO100	Outdoor Temperature Sensor STO100	TAC Vista TAC Xenta
5123246000	STO200	Outdoor Temperature Sensor STO200	TAC I/NET
5141104010	STO500	Outdoor Temperature Sensor STO500	Andover Continuum
5126060000	STO600	Outdoor Temperature Sensor STO600	Satchwell
5126050000	SSO600	Outdoor Solar Temperature Sensor SSO600	Satchwell
5126000000	STO600D	Outdoor Temperature Sensor STO600D	Drayton

STO300

The STO300 transmitter is supplied as a complete unit, comprising a sensing element and an amplifier mounted in a housing which is resistant to ultraviolet light. The transmitter is intended for mounting on an outside wall, on the north side where possible. The transmitter is connected over a 2-wire cable, which serves both as power supply and signal transmission. The reading of the measured signal is made over an external load resistance.

Specifications	
Output	4-20 mA
Range	-50/+50 °C
Accuracy	±0.4 % of range
Supply	Min. 15Vdc, Max. 36Vdc

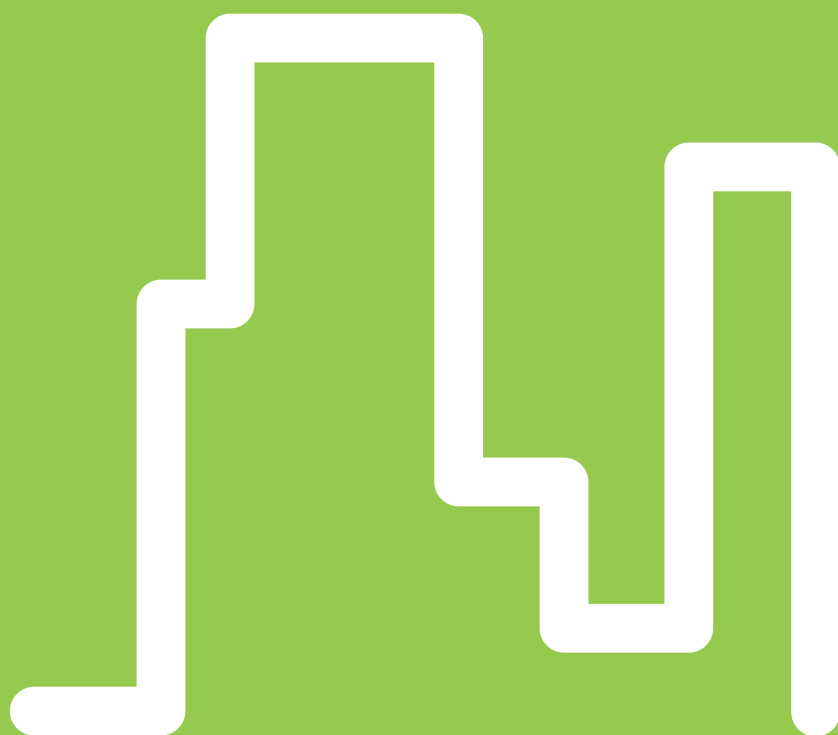| Part number	Model number	Description	System
006920501	STO300 -50/50	Outdoor Temperature Sensor STO300	All

STT
Frost Thermostats

STT900

The frost protection thermostat STT is used for air, or water-side temperature monitoring of heat exchangers, hot water circulation systems, water / air heaters, e.g. in ventilation and air conditioning systems and for the prevention of frost damage. The product features a small operating differential and high reproducibility. Resetting of the STT900 to STT904 occurs automatically, and the STT910-STT914 are designed to be reset manually by a reset button.

The output would typically switch off ventilators, close outside air flaps, open up air heating valves, switch on air heat pumps, switch off refrigeration compressors, switch off air humidifiers, or initiate a visual and / or acoustic frost alarm.

Location of these items in not critical, even in harsh environments as they are all rated to IP65.

Part number	Model number	Description Length of capillary	Control characteristics	Permissible medium
5127090000	STT910	STT910 Frost Stat M 0,6m	Manual	Air
5127080000	STT914	STT914 Frost Stat M 12m	Manual	Air
5127070000	STT912	STT912 Frost Stat M 3m	Manual	Air
5127060000	STT911	STT911 Frost Stat M 1,8m	Manual	Air / Water
5127050000	STT913	STT913 Frost Stat M 6m	Manual	Air
5127040000	STT900	STT900 Frost Stat A 0,6m	Automatically	Air
5127030000	STT904	STT904 Frost Stat A 12m	Automatically	Air
5127020000	STT902	STT902 Frost Stat A 3m	Automatically	Air
5127010000	STT901	STT901 Frost Stat A 1,8m	Automatically	Air / Water
5127000000	STT903	STT903 Frost Stat A 6m	Automatically	Air

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AC Room Controllers

Instat 7

This electronic Air Conditioning controller has 2 heat and 2 cool outputs with fan on/off.

Part number	Description
INSTAT 7 52745	INSTAT 7 - 52745

KLRE

This selection of Air Conditioning controllers offer a variety of features most commonly required for the control of heating and cooling in residential and office applications.

Part number	Description
KLR-E 5177801	AC Controller – KLR-E 5177801
KLR-E 5177805	AC Controller – KLR-E 5177805
KLR-E 5177810	AC Controller – KLR-E 5177810
KLR-E 52555	AC Controller – KLR-E 52555
KLR-E 52556	AC Controller – KLR-E 52556
KLR-E 52723	AC Controller – KLR-E 52723
KLR-E 52724	AC Controller – KLR-E 52724
KLR-E 7009	AC Controller – KLR-E 7009
KLR-E 7010	AC Controller – KLR-E 7010
KLR-E 7011	AC Controller – KLR-E 7011
KLR-E 7012	AC Controller – KLR-E 7012
KLR-E 7026	AC Controller – KLR-E 7026
KLR-E 7038	AC Controller – KLR-E 7038
KLR-E 7611	Room Thermostat - KLR-E 7611
KLR-E 7204	AC controller - KLR-E 7204
KLR-E 7203	AC controller - KLR-E 7203
KLR-E 7202	AC controller - KLR-E 7202
KLR-E 5273	Room Thermostat -KLR-E 5273
KLR-E 525 52 HP	AC controller - KLR-E 525 52 HP
KLR-E 525 52 4P	AC controller - KLR-E 525 52 4P
FRE 52531	Electric Floor Htg Controller - FRE 52531

RTR

These electronic room controllers offer a basic form of on/off heat or heat/cool control within a 75 x 75 mm enclosure.

Part number	Description
RTR-E 3502	Room Controller – RTR-E 3502
RTR-E 3520	Room Controller – RTR-E 3520
RTR-E 6124	Room Controller – RTR-E 6124
RTR-E 6721	Room Controller – RTR-E 6721

Accessories

Part number	Description
ARA 2S RW	Adapter Frame - ARA 2S RW
ARA 1.E	Adapter Frame - ARA 1.E

SHR100
Living Space
Humidity Transmitter

SHR100

The SHR100 is an active sensor, which measures relative humidity (%RH) and converts the measurement into two selectable output signals: voltage 0-10 V or an electric current 4-20 mA.

The following options are available:
- SHR100-T includes selectable temperature sensors NTC 1.8 kΩ and NTC 10 kΩ for I/Net products.
- SHR100-T5 includes selectable temperature sensors NTC 1.8 kΩ and NTC 10 kΩ for Continuum products.
- SHR100-T6 includes temperature sensor NTC 5.02 kΩ for Satchwell products.

The transmitter consists of a sensor and amplifier, mounted together in a housing. The SHR100 is mounted directly onto the wall or a backbox / J-box.

Specifications	
Output	Selectable 4-20 mA, 0-10 V
Range	0-95% RH
Accuracy	±2%
Supply	24 Vac / 15-36 Vdc Power

Part number	Model number	Description	System
006902340	SHR100	Living Space Humidity Sensor SHR100	All (%RH only)
006902350	SHR100-T	Living Space Humidity + Temperature SHR100-T	TAC I/NET TAC Vista TAC Xenta
006902390	SHR100-T5	Living Space Humidity + Temperature SHR100-T5	Andover Continuum TAC Vista TAC Xenta
006902420	SHR100-T6	Living Space Humidity + Temperature SHR100-T6	Satchwell

SHD100
Duct Humidity Transmitter

SHD100

The SHD100 is an active sensor, which measures relative humidity (%RH) and converts the measurement into an electric current 4-20 mA or a voltage level 0 10 V. SHD100 is intended for immersion installation and is used for relative humidity measurement in air ducts. The transmitter is delivered as a complete unit, comprising an aluminium mounting flange with the sensing element, and an amplifier mounted in a separate housing.

The following options are available:
- SHD100-T includes selectable temperature sensors NTC 1.8 kΩ and NTC 10 kΩ for I/Net products.
- SHD100-T5 includes selectable temperature sensors NTC 1.8 kΩ and NTC 10 kΩ for Continuum products.
- SHD100-T6 includes temperature sensor NTC 5.02 kΩ for Satchwell products.

The sensor has negligible hysteresis and is insensitive to dust as well as a wide range of chemicals. The housing accommodates a 20mm conduit. A conduit gland nut is supplied with the unit.

Specifications	
Output	Selectable 4-20 mA, 0-10 V
Range	0-95% RH
Accuracy	±2%
Supply	24 Vac / 15-36 Vdc Power

Part number	Model number	Description	System
006902321	SHD100	Duct Humidity Sensor SHD100	All (%RH only)
006902331	SHD100-T	Duct Humidity + Temperature SHD100-T	TAC I/NET TAC Vista TAC Xenta
006902381	SHD101-T5	Duct Humidity + Temperature SHD101-T5	Andover Continuum TAC Vista TAC Xenta
006902411	SHD101-T6	Duct Humidity + Temperature SHD101-T6	Satchwell

SHO100
Outdoor Humidity Transmitter

SHO100

The SHD100 is an active sensor, which measures relative humidity (%RH) and converts the measurement into an electric current 4-20 mA or a voltage level 0 10 V. SHD100 is intended for immersion installation and is used for relative humidity measurement in air ducts. The transmitter is delivered as a complete unit, comprising an aluminium mounting flange with the sensing element, and an amplifier mounted in a separate housing.

The following options are available:
- SHD100-T includes selectable temperature sensors NTC 1.8 kΩ and NTC 10 kΩ for I/Net products.
- SHD100-T5 includes selectable temperature sensors NTC 1.8 kΩ and NTC 10 kΩ for Continuum products.
- SHD100-T6 includes selectable temperature sensors NTC 1.8 kΩ and NTC 5.02 kΩ for Satchwell products.

The sensor has negligible hysteresis and is insensitive to dust as well as a wide range of chemicals. The housing accommodates a 20mm conduit. A conduit gland nut is supplied with the unit.

Specifications	
Output	Selectable 4-20 mA, 0-10 V
Range	0-95% RH
Accuracy	±2%
Supply	24 Vac / 15-36 Vdc Power

Part number	Model number	Description	System
006902361	SHO100	Outdoor Humidity Sensor SHO100	All (%RH only)
006902371	SHO100-T	Outdoor Humidity + Temperature SHO100-T	TAC I/NET TAC Vista TAC Xenta
006902401	SHO101-T5	Outdoor Humidity + Temperature SHO101-T5	Andover Continuum TAC Vista TAC Xenta

SCP110/SCC110
Pipe, Contact Condensation Transmitter

SCP110/SCC110

These devices are suitable for fixing to chilled pipework to sense and therefore take control action against the formation of condensation.

The SCP110 is designed for direct mounting onto pipe systems. The sensor element is mounted in the contact material below the housing.

The SCC110 has a remote sensor with a 2m wire. The sensor element is fitted into a sensor head made of aluminium.

Specifications	
Output	Relay contact (change-over), 24V/1A, potential-free, contact material Ag/Ni 90/10
Range	Switching threshold adjustable 90 to 96%rH. Mid-position equals 93% rH
Supply	24Vac+/-10% / 18-32Vdc

Part number	Model number	Description
006902500	SCP110	Pipe Condensation Transmitter SCP110
006902510	SCC110	Contact Condensation Transmitter SCC110

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Schneider Electric
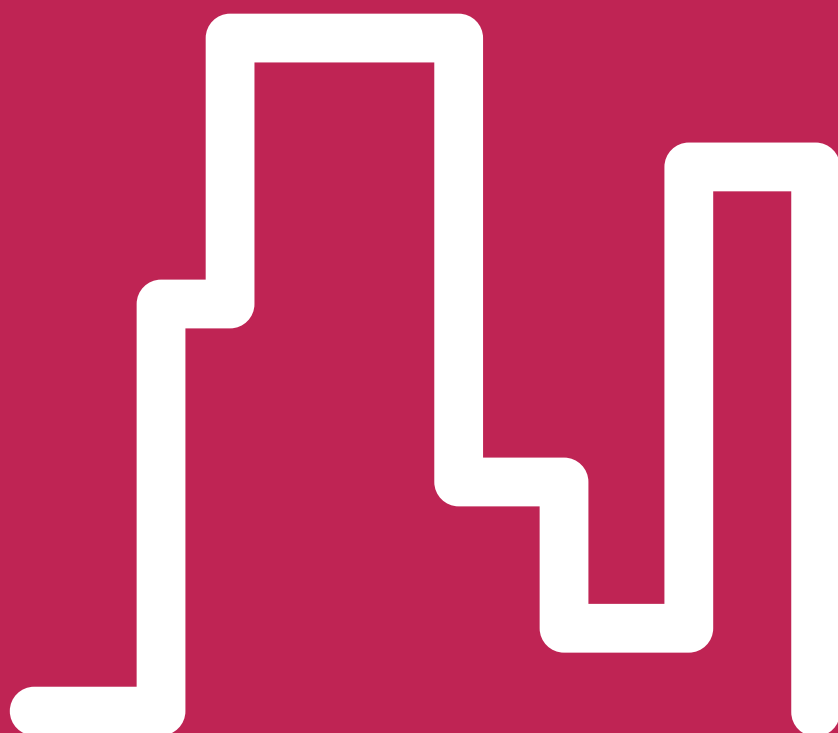
SPD310/SPD360
Air Differential
Pressure Transmitters

SPD310 / SPD360

SPD310 / SPD360 differential pressure transmitters are intended for use in air handling systems for the monitoring of air ducts, filters and fans. SPD310 / SPD360 are electronic differential pressure transmitters that convert the differential pressure measured into an electric 0-10 V signal. SPD360 has an LCD display, showing the differential pressure in Pa.

SPD310 / SPD360 are delivered with a 2 metre tube and two plastic duct connectors.

Specifications	
Output	0-10 V
Ranges	0-100 Pa, 0-300 Pa, 0-500 Pa, 0-1000 Pa, 0-1200 Pa, 0-2500 Pa, 0-5000 Pa
Accuracy	
Linear output	≤ 0.75%FS
0-100Pa	≤ 1.5%
Linearity inc. temperature and hysterisis	≤ 2%FS
0-100Pa	≤ 4%FS
Accuracy at ambient temperature of 25°C/UG-24V	≤ ±0.4%FS

Part number	Model number	Description
004700320	SPD310-100/300/500/1000Pa	Differential Air Pressure Transmitters SPD310-100/300/500/1000Pa
004700340	SPD310-1000/1200/2500/5000Pa	Differential Air Pressure Transmitters SPD310-1000/1200/2500/5000Pa
004700360	SPD360-300/500/1000/2500Pa	Differential Air Pressure Transmitters SPD360-300/500/1000/2500Pa

SPP110
Pressure Transmitter

SPP110

SPP110 pressure transmitters are intended for use in HVAC pipe systems to monitor pressure. The SPP110 is an electronic pressure transmitter that converts the measured pressure into an electric 0-10 V signal. The SPP110 is delivered with 2m (6.6 ft) cable and a G1/2 adapter nut.

Medium: any medium suitable for stainless steel.

Specifications	
Output	0-10 V
Ranges	0-100 kPa, 0-250 kPa, 0-600 kPa, 0-1000 kPa, 0-1600 kPa, 0-2500 kPa, 0-4000 kPa ranges
Accuracy	
Total of linearity, hysteresis and repeatability	±0.5 % FS
Zero point residual voltage	< 50 mV
Supply	24 Vac / 15-36Vdc

Part number	Model number	Description
004702020	SPP110-100kPa	Wet Media Pressure Transmitter SPP110-100kPa
004702040	SPP110-250kPa	Wet Media Pressure Transmitter SPP110-250kPa
004702060	SPP110-600kPa	Wet Media Pressure Transmitter SPP110-600kPa
004702080	SPP110-1000kPa	Wet Media Pressure Transmitter SPP110-1000kPa
004702100	SPP110-1600kPa	Wet Media Pressure Transmitter SPP110-1600kPa
004702120	SPP110-2500kPa	Wet Media Pressure Transmitter SPP110-2500kPa
004702140	SPP110-4000kPa	Wet Media Pressure Transmitter SPP110-4000kPa

SPW100 Series
Wet Differential
Pressure Transmitter

SPW100

SPW Differential Wet Pressure Sensors utilise well proven ceramic technology. They have a low sensitivity to change in temperature and a high resistance to extreme temperatures.

Specifications	
Output	3 wire 0 -10V
Ranges	0-0.5, 0-1.0, 0-1.6, 0-2.5, 0-4.0, 0-6.0, 0-10 and 0-16.0. All figures shown are in bar.
Accuracy	Max. ±1% (varies depending on model)
Total of linearity, hysteresis and repeatability	±1.25% Max.
Medium	Liquids and neutral gases
Supply	18…33VDC or 24VAC ±15%
Mounting bracket	Screws and female connector providing IP65 when installed are all included

Part number	Model number	Description
6552047000	SPW100	Differential Water Pressure Transmitter 0….0.5bar
6552048000	SPW102	Differential Water Pressure Transmitter 0….1bar
6552049000	SPW104	Differential Water Pressure Transmitter 0….1.6bar
6552050000	SPW106	Differential Water Pressure Transmitter 0….2.5bar
6552051000	SPW108	Differential Water Pressure Transmitter 0….4bar
6552052000	SPW110	Differential Water Pressure Transmitter 0….6bar
6552053000	SPW112	Differential Water Pressure Transmitter 0….10bar
6552054000	SPW114	Differential Water Pressure Transmitter 0….16bar

SPP920
Differential Pressure Switches

SPP920

SPP920 Differential Pressure Switches are suitable for use with neutral and slightly aggressive liquids and gases. This range of products will provide switching over a pressure range of 6 mbar to 5.5 bar. They are suitable for flow monitoring in heating or cooling applications and level monitoring.

Specifications	
Nominal voltage	250Vac
Nominal current	1A resistive loading
Nominal current	0.5A inductive loading
Current rating	0.1A resistive, 1A inductive
Contact Material AgCdO	
SPDT Dry Contacts	
Service Life Mechanically 106 Switching Cycles	
Protection Standard IP65	
Electrical Connection Screw Terminals	

Part number	Model number	Description
004701100	SPP920-020	Differential pressure switch - 6 to 20 mbar
004701110	SPP920-060	Differential pressure switch - 15 to 60 mbar
004701120	SPP920-200	Differential pressure switch - 40 to 200 mbar
004701130	SPP920-1000	Differential pressure switch - 150 to 1000 mbar
004701140	SPP920-3000	Differential pressure switch - 1 to 3 bar
004701150	SPP920-5500	Differential pressure switch - 2.5 to 5.5 bar

Note that this Huba differential pressure switch Type 630, is a class three product and technical support will be provided by Huba. Click link www.hubacontrol.com

SPP930
Relative Pressure Switches

SPP930

SPP930 Pressure Switches are suitable for the monitoring of both liquid and gases in HVAC, industrial equipment, manufacturing applications and process technology. They cover the range from 120 to 6000 mbar and provide a high margin for over pressure. They may be used in locations that experience high vibrations. The product is supplied with a cover (not shown).

Specifications	
Nominal voltage	250Vac
Nominal current	1A resistive loading
Nominal current	0.5A inductive loading
Current rating	0.1A resistive, 1A inductive
SPDT Dry Contacts	
Service Life Mechanically 106 Switching Cycles	
Electrical Connection Screw Terminal	
Cable Gland PG11	

Part number	Model number	Description
004701160	SPP930-2200	Overpressure switch - 120 to 2200 mbar
044701170	SPP930-6000	Overpressure switch - 1000 to 6000 mbar

Note that this is a Huba relative pressure switch Type 625, class three product and technical support will be provided by Huba. Click link www.hubacontrol.com

SPD900
Pressure Switches

SPD900

The SPD differential pressure switch is intended for use in air handling systems for the monitoring of air ducts, filters and fans. A control knob with a clear scale makes it easy to adjust the setpoint. SPD900 is delivered with a 2m tube and 2 plastic duct connectors.

Medium: air and non-aggressive gases

Specifications	
SPD910	
Range	20-200 Pa
Maximum voltage rating	250Vac
Contacts	Silver
Current rating	0.1A resistive, 1A inductive
SPD910	
Range	40-600 Pa
Maximum voltage rating	250Vac
Contacts	Silver
Current rating	0.1A resistive, 2A inductive

Part number	Model number	Description
004701090	SPD910-2000Pa	Switch Pres Air SPD910-2000Pa
004701080	SPD910-1000Pa	Switch Pres Air SPD910-1000Pa
004701070	SPD910-500Pa	Switch Pres Air SPD910-500Pa
004701060	SPD910-300Pa	Switch Pres Air SPD910-300Pa

Pressure Meters

Differential Pressure Gauge with Switch

This device uses a SPD900-600 pressure switch combined with an analogue meter to display the instantaneous pressure value.

Part number	Model number	Description	Manufacturer
6552000000	109.002.001	DPG600/PS600 Pressure Gauge w.Pr.switch	Hk Instruments
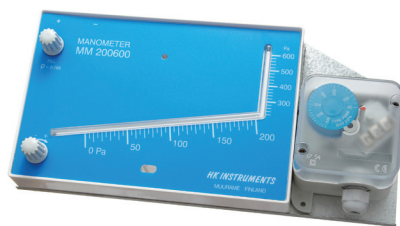
Inclined Tube Manometer

The Inclined Tube Manometer is a traditional pressure meter which measures and indicates, small over pressure, under pressure and differential pressure of air and non-aggressive gasses in pressure ranges from +/- 50 Pa up to 0-1 500 Pa.

Part number	Model number	Description	Manufacturer
6552001000	110.001.001	Inclined Tube Manometer	Hk Instruments

Living Space CO$_2$ Sensors with Humidity Option

SCR Series

The all new SCR range of CO$_2$ transmitters now combine the option of adding a humidity transmitter into a single unit. Temperature sensing for all current platforms is available dependent on the model selected thus offering lower cost installation. Outputs are user selectable, 0 to 10V, 0 to 5V or 4 to 20mA.

The sensor is auto calibrating using the Auto Baseline Calibration (ABC) feature and will sense CO$_2$ concentrations in the range 0 to 2000ppm with an accuracy of ±2% of measured value (at 20deg C and 101.3kPa).

The transmitter also include a relay that will switch at 800/1000 or1200ppm dependent on internal switch settings.

Replacement humidity tips are available including a 2% NIST certificated tip. If calibration is required, order the standard product and the replacement 2% tip.

Specifications	
Input voltage	24VAC, 20 to 36VDC
Analogue output	4 to 20mA, 0 to 5V or 0 to 10V
Current draw	50 to 170mA (dependent on input voltage)

Available products

Part number	Model number	Wall mounted C02 sensor with:			
		LED	TEMP	2% RH	System
5152400000	SCR110	x	x		TAC Vista 1.8K
5152402000	SCR110-H	x	x	x	TAC Vista 1.8K
5152420000	SCR110B		x		TAC Vista 1.8K
5152422000	SCR110B-H		x	x	TAC Vista 1.8K
5152404000	SCR210	x	x		TAC i/NET 10K T2
5152406000	SCR210-H	x	x	x	TAC i/NET 10K T2
5152424000	SCR210B		x		TAC i/NET 10K T2
5152426000	SCR210B-H		x	x	TAC i/NET 10K T3
5152408000	SCR510	x	x		Andover Continuum 10K T3
5152410000	SCR510-H	x	x	x	Andover Continuum 10K T3
5152428000	SCR510B		x		Andover Continuum 10K T3
5152430000	SCR510B-H		x	x	Andover Continuum 10K T3
5152412000	SCR610	x	x		Satchwell 10K T3 Resistor/Shunt
5152414000	SCR610-H	x	x	x	Satchwell 10K T3 Resistor/Shunt
5152432000	SCR610B		x		Satchwell 10K T3 Resistor/Shunt
5152434000	SCR610B-H		x	x	Satchwell 10K T3 Resistor/Shunt
5152416000	SCR810	x	x		I/A 10K T3 w/Shunt
5152418000	SCR810-H	x	x	x	I/A 10K T3 w/Shunt
5152436000	SCR810B		x		I/A 10K T3 w/Shunt
5152438000	SCR810B-H		x	x	I/A 10K T3 w/Shunt
5152339010	HS2NX	Replaceable RH Element, 2% NIST			
5152339000	HS2XX	Replaceable RH Element, 2%			

Air Quality Transmitters

CO$_2$ Sensors with Humidity Option

SCD Series

The all new SCD range of CO$_2$ transmitters with temperature sensing now combines the option of adding a humidity transmitter into a single unit. Temperature sensing for all current platforms is available dependent on the model selected thus offering lower cost installation.

Outputs are user selectable, 0 to 10V, 0 to 5V or 4 to 20mA. The sensor is auto calibrating using the Auto Baseline Calibration (ABC) feature and will sense CO$_2$ concentrations in the range 0 to 2000ppm with an accuracy of ±2% of measured value.

The transmitter also include a relay that will switch at 800/1000 or1200ppm dependent on internal switch settings.

Replacement humidity tips are available including a 2% NIST certificated tip. If calibration is required, order the standard product and the replacement 2% tip.

Specifications

Input voltage	24VAC, 20 to 36VDC
Analogue output	4 to 20mA, 0 to 5V or 0 to 10V
Current draw	40 to 150mA (dependent on input voltage)

For full details refer to the data sheet.

Available products

Part number	Model number	Duct mounted CO$_2$ sensor with			
		Temp	2%RH	LCD	System
5152300000	SCD110	X			TAC Vista 1.8K
5152302000	SCD110-D	X		X	TAC Vista 1.8K
5152304000	SCD110 H	X	X		TAC Vista 1.8K
5152306000	SCD110-D-H	X	X	X	TAC Vista 1.8K
5152308000	SCD210	X			TAC I/NET 10k T2
5152310000	SCD210-D	X		X	TAC I/NET 10k T2
5152312000	SCD210 H	X	X		TAC I/NET 10k T2
5152314000	SCD210-D-H	X	X	X	TAC I/NET 10k T2
5152316000	SCD510	X			Andover Continuum 10K T3
5152318000	SCD510-D	X		X	Andover Continuum 10K T3
5152329000	SCD510 H	X	X		Andover Continuum 10K T3
5152322000	SCD510-D-H	X	X	X	Andover Continuum 10K T3
5152324000	SCD610	X			Satchwell 10K T3 Resistor/Shunt
5152326000	SCD610-D	X		X	Satchwell 10K T3 Resistor/Shunt
5152328000	SCD610 H	X	X		Satchwell 10K T3 Resistor/Shunt
5152330000	SCD610-D-H	X	X	X	Satchwell 10K T3 Resistor/Shunt
5152332000	SCD810	X			I/A 10K T3 w/Shunt
5152334000	SCD810-D	X		X	I/A 10K T3 w/Shunt
5152336000	SCD810 H	X	X		I/A 10K T3 w/Shunt
5152338000	SCD810-D-H	X	X	X	I/A 10K T3 w/Shunt
5152339010	HS2NX	Replaceable RH Element, 2%, NIST			
5152339000	HS2XX	Replaceable RH Element, 2%			

CO_2 Living Space Sensor with Display

aSENSE-Display

This device provides two outputs one for CO_2 (0-2000ppm), the other for temperature (0-50°C).

These outputs are configurable 0-10Vdc, 2-10Vdc or 4-20mA.

Part number	Model number	Description	Manufacturer
6559016000	Sensor Living Space CO_2 aSENSE-Display	Sensor Living Space CO_2 aSENSE-Display	SenseAir

CO/CO_2 Large Space Transmitter

aSENSE m III $CO\&CO_2$ Combi

A combined carbon monoxide and carbon dioxide sensor ideal for measuring air quality for health purposes in indoor carparks and traffic tunnels. Energy efficiency can be achieved by using the measurement(s) to vary the fan speed of the fresh air supply equipment.

Part number	Model number	Description	Manufacturer
6553063000	07-08-01-CO-D	aSENSE m III $CO\&CO_2$ Combi	SenseAir

CO/CO$_2$ Duct Sensor

aSENSE m III CO&CO2 Combi

This device measures both carbon monoxide and carbon dioxide and therefore is ideal for measuring air quality for health purposes in indoor carparks and traffic tunnels. Energy efficiency can be achieved by using the measurement(s) to vary the fan speed of the fresh air supply equipment.

Part number	Model number	Description	Manufacturer
6553064000	040-8-0-0066	aSENSE m III-K CO&CO2 Combi	SenseAir

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Duct Smoke Detectors

These smoke detectors from Calectro offer both optical and ionisation types. Fan assisted versions also available along with a range of options such as covers, various lengths of venturi pipes, and control units.

Part number	Model number	Description
6553034000	UG-3-A4O	Duct Smoke Detector – UG-3-A4O
6553036000	UG-3-A5O	Duct Smoke Detector – UG-3-A5O
6553028000	UG-3-O	Duct Smoke Detector – UG-3-O
6553038000	UG-3-O-F	Duct Smoke Detector – UG-3-O-F

Accessories for Duct Smoke Detectors

Part number	Model number	Description
6553039000	UG-Cover	Protection cover for Uniguard
6553049000	UG-Mounting bracket	UG-Mounting Bracket
6553065000	VR-1.5M	Venturi Pipe VR-1.5M
6553066000	VR-2.8M	Venturi Pipe VR-2.8M

Room Smoke Detectors

These smoke detectors from Calectro are advanced industrial grade products using a dual-chamber principle that makes for a fast reaction time.

Part number	Model number	Description
6553014000	EVC-PY-DA	Smoke Detector – EVC-PY-DA
6553047000	NS-AOS	Smoke Detector – NS-AOS
6553041000	EVC-PY-DA	Smoke Detector – EVC-PY-DA

Control Units for Smoke Detectors

These controllers are designed for DIN rail mounting. Relays operate on an active smoke alarm that can be used to stop ventilation fans and close fire dampers. Front LEDs provide local status including a service indication showing a need for sensor replacement.

Part number	Model number	Description
6553006000	ABAV-S3 24v	Control Unit ABAV-S3 24v
6553007000	ABAV-S3 230v	Control Unit ABAV-S3 230v
6553008000	STB-4SE-24VR	Relay Socket

Technical Documentation from www.Calectro.com

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Living Space
Light Transmitters

SLR320

The SLR320 electronic light transmitter converts a lux measurement into a 0-10 Vdc output signal or an electric current signal 4-20 mA. It has two sensitivity ranges to suit different light levels:

- 0-400 lux (e.g. for controlling outdoor lighting)
- 0-20k lux (for controlling sunshade systems).

The transmitter is delivered as a complete unit, comprising the sensing element, and an amplifier mounted in a housing. The transmitter is intended for wall mounting indoors. The sensitivity peak is for light at an angle of incidence of 0° to the perpendicular. The sensor has the same spectrum sensitivity peak as the human eye.

The SLR320 converts a lux measurement into a current signal 4-20mA or an electric signal 0-10 V. Selectable by a link located on the PCB.

Specifications	
SLR320 – current mode	
Output	2-Wire, 4-20 mA
Range	0-400 lux, 0-20k lux selectable
Accuracy	±5%
Supply	Min. 15Vdc, Max. 36Vdc
SLR320 – voltage mode	
Output	0-10Vdc
Range	0-400 lux, 0-20k lux selectable
Accuracy	±5%
Supply	24Vac, 15-36 Vdc

Part number	Model number	Description
006920630	SLR320	Living Space Light Sensor SLR320

Outdoor Light Transmitters

SLO320

The SLO320 electronic light transmitter converts a lux measurement into an electric current (4 to 20mA) or voltage (0 to 10V) signal. They have two sensitivity ranges to suit different light levels:

- 0-400 (e.g. for controlling outdoor lighting)
- 0-20 (for controlling sunshade systems).

The transmitter is delivered as a complete unit, comprising the sensing element and an amplifier mounted in a housing. The transmitter is intended for wall mounting. The sensitivity peak is for light at an angle of incidence of 0° to the perpendicular.

The sensor has the same spectrum sensitivity peak as the human eye. The SLO320 is an electronic light transmitter that converts a lux measurement into a current signal 4-20mA or an electric signal 0-10 V selectable by a link located on the PCB.

Specifications	
SLO320 – current mode	
Output	2-Wire, 4-20 mA
Range	0-400 lux, 0-20k lux selectable
Accuracy	±5%
Supply	Min. 15Vdc, Max. 36Vdc
SLO320 – voltage mode	
Output	0-10Vdc
Range	0-400 lux, 0-20k lux selectable
Accuracy	±5%
Supply	Min. 15Vdc, Max. 36Vdc

Part number	Model number	Description
006920640	SLO320	Outdoor Light Sensor SLO320

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Appendix A:
Sensor Accuracy Tables

Table A

For all TAC Vista (100 Series Sensors), e.g. STD100

At temperature	Accuracy
-25 °C/-13 °F	±0.7 °C/±1.3 °F
±0 °C/32 °F	±0.5 °C/±0.9 °F
25 °C/77 °F	±0.3 °C/±0.5 °F
50 °C/122 °F	±0.6 °C/±1.1 °F
75 °C/167 °F	±0.9 °C/±1.6 °F
100 °C/212 °F	±1.3 °C/±2.3 °F

Table B

For all TAC I/NET (200 Series Sensors), e.g. STD200

At temperature	Accuracy
-25 °C/-13 °F	±0.5 °C/±0.9 °F
±0 °C/32 °F	±0.2 °C/±0.4 °F
25 °C/77 °F	±0.2 °C/±0.4 °F
50 °C/122 °F	±0.2 °C/±0.4 °F
70 °C/158 °F	±0.2 °C/±0.4 °F
100 °C/212 °F	±0.5 °C/±0.9 °F

Table C

For all Andover Continuum (500 Series Sensors), e.g. STD500

At temperature	Accuracy
-25 °C/-13 °F	±0.5 °C/±0.9 °F
±0 °C/32 °F	±0.2 °C/±0.4 °F
25 °C/77 °F	±0.2 °C/±0.4 °F
50 °C/122 °F	±0.2 °C/±0.4 °F
70 °C/158 °F	±0.2 °C/±0.4 °F
100 °C/212 °F	±0.5 °C/±0.9 °F

Table D

For all TAC Vista Averaging Sensors (100 Series), e.g.STD 190

At temperature	Accuracy
-25 °C/-13 °F	±0.7 °C/±1.3 °F
±0 °C/32 °F	±0.5 °C/±0.9 °F
25 °C/77 °F	±0.3 °C/±0.5 °F
50 °C/122 °F	±0.6 °C/±1.1 °F
75 °C/167 °F	±0.9 °C/±1.6 °F
100 °C/212 °F	±1.3 °C/±2.3 °F

Table E

For all Andover Continuum Averaging Sensors (500 Series), e.g. STD500-150

At temperature	Accuracy
-25 °C/-13 °F	±0.5 °C/±0.9 °F
±0 °C/32 °F	±0.2 °C/±0.4 °F
25 °C/77 °F	±0.2 °C/±0.4 °F
50 °C/122 °F	±0.2 °C/±0.4 °F
70 °C/158 °F	±0.2 °C/±0.4 °F
100 °C/212 °F	±0.5 °C/±0.9 °F

Table F

For all Satchwell Sensors (600 Series), e.g. STR600

At temperature	Accuracy
-25 °C/-13 °F	±0.6 °C/±1.0 °F
±0 °C/32 °F	. ±0.3 °C/±0.5 °F
25 °C/77 °F	±0.2 °C/±0.4 °F
50 °C/122 °F	±0.2 °C/±0.4 °F
75 °C/167 °F	±0.3 °C/±0.5 °F
100 °C/212 °F	±0.3 °C/±0.5 °F

Table G

For STR800 Living Space Sensors

At temperature	Accuracy
0°C/32°F	±0.3°C/±0.5°F
10°C/50°F	±0.3°C/±0.5°F
25°C/75°F	±0.3°C/±0.5°F
35°C/95°F	±0.3°C/±0.5°F
50°C/122°F	±0.3°C/±0.5°F

Schneider Electric

General Model Number Format

The following diagram explains the general construction of the Sensor Model Numbering methodology. There are some rare instances where this rule is broken, but in most cases, this serves as a good guideline.
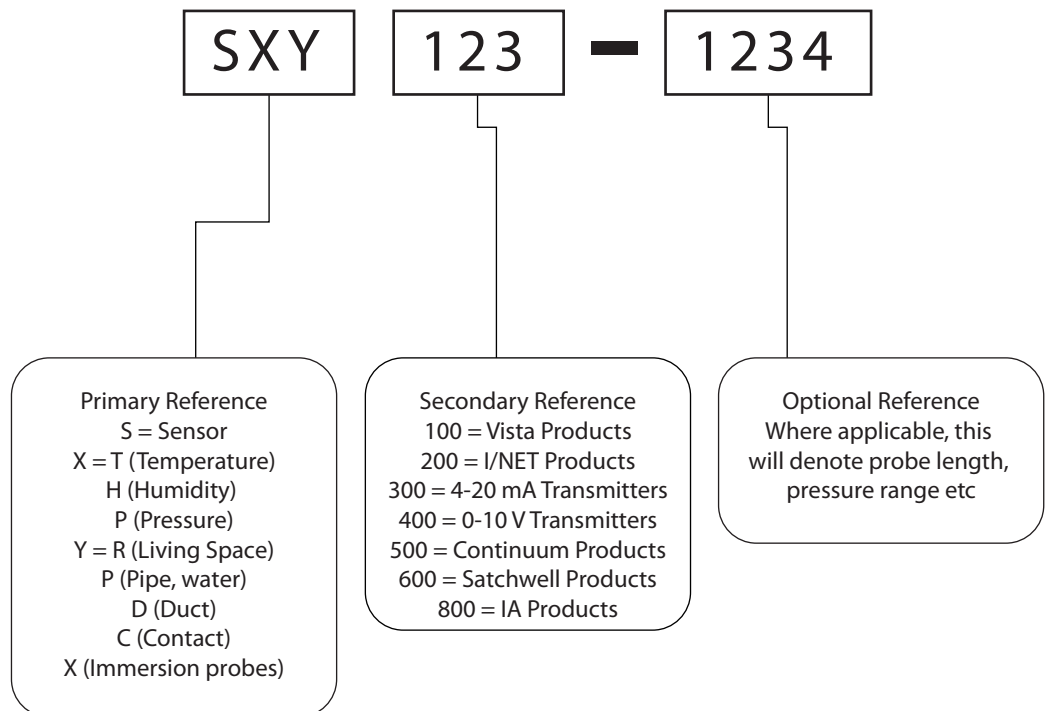
| SXY | 123 | — | 1234 |

Primary Reference
S = Sensor
X = T (Temperature)
    H (Humidity)
    P (Pressure)
Y = R (Living Space)
    P (Pipe, water)
    D (Duct)
    C (Contact)
    X (Immersion probes)

Secondary Reference
100 = Vista Products
200 = I/NET Products
300 = 4-20 mA Transmitters
400 = 0-10 V Transmitters
500 = Continuum Products
600 = Satchwell Products
800 = IA Products

Optional Reference
Where applicable, this will denote probe length, pressure range etc

As standards, specifications, and designs change from time
to time, please ask for confirmation of the information given
in this publication.

Design: Schneider Electric
Photos: Schneider Electric