



# 2023

PRICE BOOK

# SONTAY'S Contact Team

Our team will be pleased to hear from you whenever you require any information on our range of products and services.

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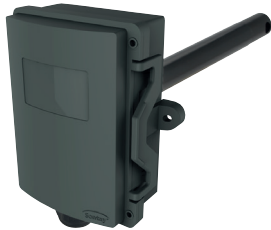
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# Air & Water Flow

## AV-D Single-point Air Velocity Sensor



Part code	Description	\$
AV-D	Air Velocity Sensor	369.85
<b>Accessory</b>		
DPA	Duct probe adjustment flange	54.76

## FS-A Air Flow Switch



Part code	Description	\$
FS-A	80 x 175mm Paddle Switch	118.25

## AV-W Wind Speed and Direction Sensors



Part code	Description	\$
AV-W-S	Wind Speed Sensor	1397.46
AV-W-AD	Wind Speed and Direction Sensor	2236.60

## FS-W Liquid Flow Switch



Part code	Description	\$
FS-W	1" BSPT Flow Switch	128.09

## AV Multi-point Air Velocity Probes



Part code	Description	\$
AV-EP-100	100mm Multi-point Probe (ABS)	56.02
AV-EP-200	200mm Multi-point Probe (ABS)	66.36
AV-EP-300	300mm Multi-point Probe (ABS)	73.29
AV-EP-400	400mm Multi-point Probe (ABS)	85.34
AV-EP-500	500mm Multi-point Probe (ABS)	89.68
AV-EP-600	600mm Multi-point Probe (ABS)	98.32
AV-MPS-700	To suit duct size of 600-700mm	245.75
AV-MPS-800	To suit duct size of 700-800mm	277.63
AV-MPS-1000	To suit duct size of 750-1000mm	319.86
AV-MPS-1250	To suit duct size of 1000-1250mm	359.51
AV-MPS-1500	To suit duct size of 1250-1500mm	407.74
AV-MPS-1750	To suit duct size of 1500-1750mm	456.95
AV-MPS-2000	To suit duct size of 1750-2000mm	522.45
<b>Accessory</b>		
PA-TUBE-8MM	PVC tube 8mm o/d x 1.5mm wall, 30m	70.95

## LS-712 Hydrostatic Level Transmitter



Part code	Description	\$
LS-712-A	0-300mbar, 5 meter cable, 4-20mA output	1986.35
LS-712-A-V	0-300mbar, 5 meter cable, 0-10Vdc output	1986.35
LS-712-B	0-1000mbar, 15 meter cable, 4-20mA output	1656.83
LS-712-B-V	0-1000mbar, 15 meter cable, 0-10Vdc output	1656.83



**LS-CAP** Capacitance Level Sensors



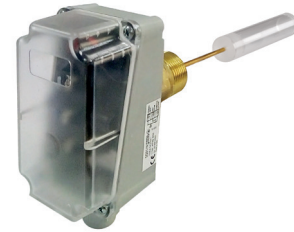
Part code	Description	\$
<b>Conducting Liquids</b>		
LS-CAP-1-0.5	0.5m Probe	1577.28
LS-CAP-1-1.0	1.0m Probe	1639.70
LS-CAP-1-1.5	1.5m Probe	1734.93
LS-CAP-1-2.0	2.0m Probe	1813.77
LS-CAP-1-2.5	2.5m Probe	1892.61
LS-CAP-1-3.0	3.0m Probe	1986.23
<b>Non-conducting Liquids</b>		
LS-CAP-2-0.5	0.5m Probe	1514.07
LS-CAP-2-1.0	1.0m Probe	1577.28
LS-CAP-2-1.5	1.5m Probe	1671.70
LS-CAP-2-2.0	2.0m Probe	1751.35
LS-CAP-2-2.5	2.5m Probe	1829.36
LS-CAP-2-3.0	3.0m Probe	1924.59

**LS-UT** Ultrasonic Level Transmitter



Part code	Description	\$
LS-UT	Ultrasonic Level Transmitter	2283.65

**LS-541** Float Switch



Part code	Description	\$
LS-541	1" BSPT Float Switch (horizontal mount)	244.06

**LS-FL** Liquid Level Float Switches



Part code	Description	\$
LS-FL-1H	High Level, Alarm Switch	241.00
LS-FL-1L	Low Level, Alarm Switch	241.00
LS-FL-2H	Emptying Pump, Control Switch	445.11
LS-FL-2L	Filling Pump, Control Switch	445.11
LS-FL-2LH	High & Low Level Alarm Switch	448.26

**LS-S** Compact Liquid Level Switch

LS-S Types

LS-TM



Part code	Description	\$
<b>Polypropylene Float Switches</b>		
LS-SN-1	Internal fixing to M16 back nut	102.68
LS-SN-2	1/2" NPT external fixing	90.32
<b>Stainless Steel Float Switches</b>		
LS-SS-1	Internal fixing to M16 back nut	241.50
LS-SS-2	1/2" PF external fixing	292.32
<b>Top Mounting Reversible Float Switch</b>		
LS-TM	Top Mounting Level Switch	128.09

# Air Quality & Gas Sensing

## GS-AQ

Indoor Air Quality and Temperature Sensor

### SPACE SENSORS



Part code	Description	\$
GS-AQ-S	Space Air Quality & Temperature Sensor	388.18

## GS-AQ-x-UN

Single Output Indoor Air Quality Sensors

### SPACE SENSORS



Part code	Description	\$
GS-AQ-S-UN	Space Air Quality Sensor	260.89

### DUCT SENSORS



Part code	Description	\$
GS-AQ-D	Duct Air Quality & Temperature Sensor	433.31

### DUCT SENSORS



Part code	Description	\$
GS-AQ-D-UN	Duct Air Quality Transmitter	302.35

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T *	Direct resistive temperature output	44.21
-SP *	11-1kΩ/0-10kΩ setpoint	36.10
-MS *	Momentary switch	44.21
-LCD	LCD display	150.27
-TR	Custom temperature range -20 to +50°C	35.01
-5V	Output 0-5Vdc (instead of 0-10Vdc)	0.00
-BLK**	Black space housing	11.88
<b>Accessory</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

#### ⚠ Notes:

- \* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating.
- \* Only available on Space Sensor Types.

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T*	Direct resistive temperature output	34.43
-SP*	2-wire, 1-11kΩ/0-10kΩ set point	28.12
-MS*	Momentary switch	34.43
-LCD	LCD display	117.03
-BLK**	Black space housing	11.88
<b>Accessory</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

#### ⚠ Notes:

- \* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating.
- \* Only available on Space Sensor Types.

## GS-CO2

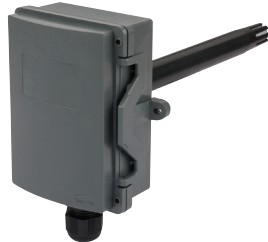
Carbon Dioxide, Temperature  
and optional RH Sensors

## SPACE SENSORS



Part code	Description	\$
GS-CO2-S	Space Mounted CO <sub>2</sub> and T Sensor 0-2000ppm	398.18
GS-CO2-RHT-S	Space Mounted CO <sub>2</sub> , RH and T Sensor 0-2000ppm	570.91
GS-CO2-AQ-S	Space Mounted CO <sub>2</sub> , T and AQ Sensor 0-2000ppm	545.52

## DUCT SENSORS



Part code	Description	\$
GS-CO2-D	Duct Mounted CO <sub>2</sub> and T Sensor 0-2000ppm	597.28
GS-CO2-RHT-D	Duct Mounted CO <sub>2</sub> , RH and T Sensor 0-2000ppm	776.39
GS-CO2-AQ-D	Duct Mounted CO <sub>2</sub> , T and AQ Sensor 0-2000ppm	816.68

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T*	Direct resistive temperature output	44.21
-SP*	11-1kΩ/0-10kΩ setpoint	36.10
-MS*	Momentary switch	44.21
-LCD	LCD Display	160.78
-LED	3-Colour LED indication for CO <sub>2</sub>	59.09
-5V	Output 0-5Vdc (instead of 0-10Vdc)	0.00
-HR	0 to 5000ppm CO <sub>2</sub> range	25.72
-BLK**	Black space housing	11.88
<b>Accessory</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

**⚠ Notes:**

- \* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating.
- \* Only available on Space Sensor Types.

## GS-CO2-x-UN

Single Output Carbon  
Dioxide Sensors

## SPACE SENSORS



Part code	Description	\$
GS-CO2-S-UN	Space CO <sub>2</sub> Sensor, 0-2000ppm	262.71

## DUCT SENSORS



Part code	Description	\$
GS-CO2-D-UN	Duct CO <sub>2</sub> Sensor, 0-2000ppm	359.47

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T *	Direct resistive temperature output	47.32
-SP *	1-11kΩ setpoint	38.63
-MS *	Momentary switch	47.32
-LCD	LCD display	160.78
-LED	3-Colour LED indication for CO <sub>2</sub>	59.09
-BLK**	Black space housing	11.88
<b>Accessory</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

**⚠ Notes:**

- \* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating.
- \* Only available on Space Sensor Types.

**GS-CO Carbon Monoxide Sensors**

**SPACE SENSORS**



Part code	Description	\$
GS-CO-S	Space CO Sensor	460.40

**DUCT SENSORS**



Part code	Description	\$
GS-CO-D	Duct CO Sensor	681.45

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T *	Direct resistive temperature output	44.21
-SP *	11-1kΩ/0-10kΩ setpoint	36.10
-MS *	Momentary switch	44.21
-TR	Custom temperature range -20 to +50°C	35.01
-5V	Output 0-5Vdc (instead of 0-10Vdc)	0.00
-BLK**	Black space housing	11.88
<b>Accessory</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

**Notes:**  
 \* -T versions use a thermistor element. Please specify type when ordering.  
 When using in space sensors, they are not compensated for self heating.  
 \*\* Only available on Space Sensor Types.

**GL-CO Gas Leak Alarm Systems**



Part code	Description	\$
<b>Controllers (DIN-rail mount)</b>		
GL-CO-RFG-361	1-channel, 1 x SPDT	708.58
GL-CO-RFG-651	1-channel, 2 x SPDT	964.79
GL-CO-RFG-652	2-channel, 2 x SPDT	1101.04
GL-CO-RFG-653	3-channel, 2 x SPDT	1176.61
<b>Options</b>		
GL-CO-RFG-FMK3	Panel door mounting kit for RFG361	120.71
GL-CO-RFG-FMK6	Panel door mounting kit for RFG65x	181.45
GL-CO-RFG-WMK6	Wall mounting kit for RFG65x	181.45
<b>Sensors</b>		
GL-CO-SRS-150	Combustibles Sensor (natural gas)	246.34
GL-CO-SRS-250	Propane/LPG Sensor	246.34
GL-CO-SRS-350	Carbon Monoxide Sensor	256.18

**GS-S Gas Sensors**



Part code	Range	Resolution	\$
<b>CO – Carbon Monoxide</b>			
GS-S-CM-100	0 to 100ppm	0-5ppm	922.10
GS-S-CM-1000	0 to 1000ppm	0-5ppm	1123.50
<b>NO<sub>2</sub> – Nitrogen Dioxide Sensors</b>			
GS-S-ND10	0 to 10ppm	0.1ppm	793.16
<b>O<sub>2</sub> – Oxygen Sensor</b>			
GS-S-OX25	15 to 25%	0.1%	654.32
<b>SO<sub>2</sub> – Sulphur Dioxide Sensor</b>			
GS-S-SD20	0 to 20ppm	0.5ppm	854.51

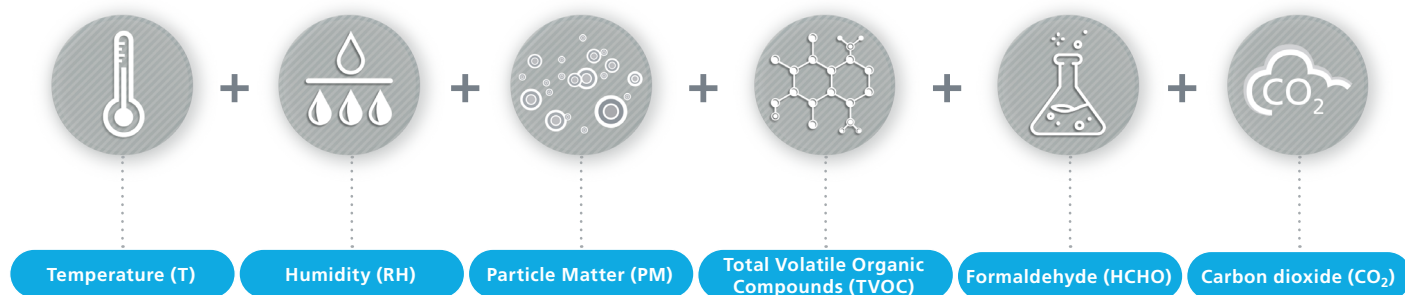
**SD-D Duct Smoke Detector**



Part code	Description	\$
SD-D	Duct Smoke Detector	476.21

# Room Particulate Matter Sensing

## MONITORING PARTICULATE MATTER



For ease of use and indication to building occupants there is a colour LCD display showing the stages from green to red of worsening conditions.

GS-PM-S

Particulate Matter Sensor



Part code	Description	\$
GS-PM-S	Wall mount PM2.5, T and RH sensor with 6 colour LCD	458.47

GS-PM-D

Duct Mounted Particulate Matter Sensor



Part code	Description	\$
GS-PM-D	Duct PM2.5, CO <sub>2</sub> , TVOC, RH and T sensor	3554.04

GS-IAQ

Indoor Air Quality Monitor



Part code	Description	\$
GS-IAQ-S	PM2.5/10, TVOC, HCHO, CO <sub>2</sub> , RH & Temp. Monitor	1632.30



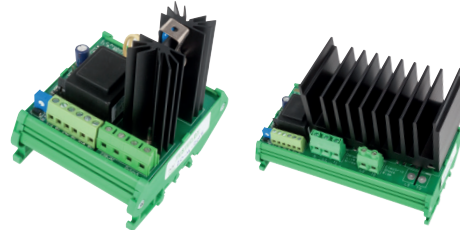
# Controllers

## FC-SDY Manual Speed Controllers for small motors



Part code	Description	\$
FC-SDY-1.5	1.5A, 1-phase Controller	119.42
FC-SDY-3	3A, 1-phase Controller	144.46

## RE-1P 2, 4 & 7kW Single-phase Controllers



Part code	Description	Current rating	\$
RE-1P-2	2kW Controllers	9A	206.86
RE-1P-4N	4kW Controllers	18A	286.55
RE-1P-7	7kW Controllers	30A	360.62

## FC-ITR Manual Speed Controllers



Part code	Description	\$
FC-ITR-3D	3A, type D, 1-phase Controller	179.27
FC-ITR-5D	5A, type D, 1-phase Controller	209.73
FC-ITR-10D	10A, type D, 1-phase Controller	308.67

## RE-3P 12, 18, 27, 36, 57, 86 & 105kW 3-phase Controllers



Part code	Description	Current rating	\$
RE-3P-12	DIN-rail 12kW Controllers	16A per phase	361.43
RE-3P-18	DIN-rail 18kW Controllers	25A per phase	497.59
RE-3P-27	Panel Mount 27kW Controllers	37A per phase	977.34
RE-3P-36	Panel Mount 36kW Controllers	50A per phase	1175.25
RE-3P-57	Panel Mount 57kW Controllers	80A per phase	1418.01
RE-3P-86	Panel Mount 86kW Controllers	120A per Phase	1748.41
RE-3P-105	Panel Mount 105kW Controllers	164A per Phase	3885.08

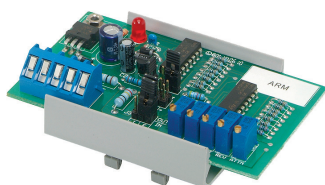
## FC-EVS Fan Speed Controllers



Part code	Description	\$
FC-EVS-1.5	1.5A, 1-phase Controller	324.82
FC-EVS-3	3A, 1-phase Controller	346.58
FC-EVS-6	6A, 1-phase Controller	364.04
FC-EVS-10	10A, 1-phase Controller	455.22

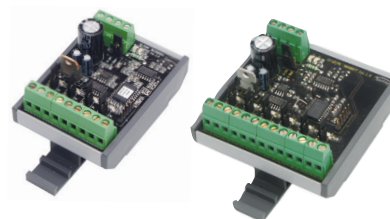
# IO Modules

## IO-A-RM Analogue Rescaling Module



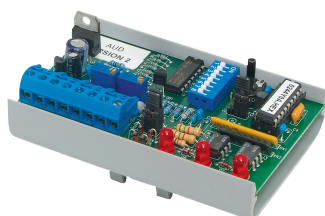
Part code	Description	\$
IO-A-RM	Analogue Rescaling Module	225.82

## IO-DIM Digital Input Multiplexers



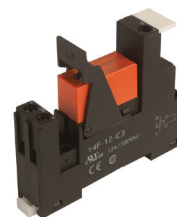
Part code	Description	\$
IO-DIM-4	4 x VFC or 24Vac/dc inputs, selectable output	60.86
IO-DIM-6	6 x VFC or 24Vac/dc inputs,selectable output	106.12

## IO-A-UD Raise/Lower to Analogue Module



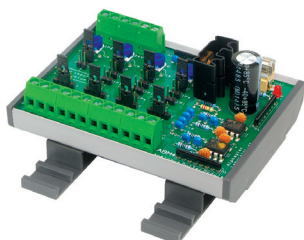
Part code	Description	\$
IO-A-UD	R/L to Analogue Module	305.87

## IO-RM1 Single Relay Modules



Part code	Description	\$
IO-RM1-12DC	Single Relay, 12Vdc Module	11.53
IO-RM1-24DC	Single Relay, 24Vdc Module	13.14
IO-RM1-24AC	Single Relay, 24Vac Module	13.14
IO-RM1-240AC	Single Relay, 230Vac Module	18.03

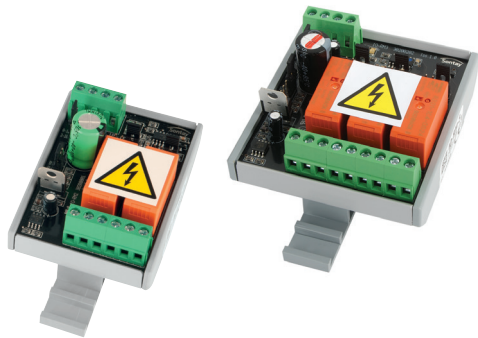
## IO-ABM4 Analogue Override Module



Part code	Description	\$
IO-ABM4	4-channel Module	199.32

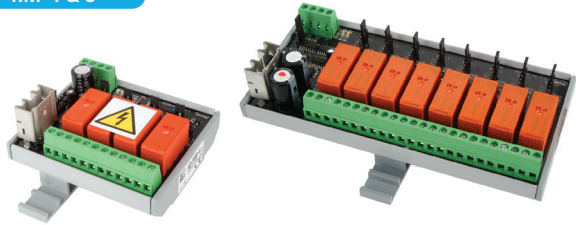
**IO-RM** Relay Modules

**IO-RM-2 & 3**



Part code	Description	\$
IO-RM-2	2-stage Relay Module	49.25
IO-RM-3	3-stage Relay Module	82.09

**IO-RM-4 & 8**



Part code	Description	\$
IO-RM-4	4-stage Relay Module	109.54
IO-RM-8	8-stage Relay Module	252.08

**IO-RM-A**



Part code	Description	\$
IO-RM-A	Adjustable Switching Point Relay Module	64.39

**LL** Light Level Sensors

# Lighting Control

**LL** Light Level Sensors

**LL-P-V**



Part code	Description	\$
LL-P-V	External, Light Level Sensor	148.54

**LL-C-V**



Part code	Description	\$
LL-C-V	Ceiling Mounted Internal, Light Level Sensor	165.06

**LL-C-M** Lighting and Occupancy Controller



Part code	Description	\$
LL-C-M	230Vac. flush ceiling mounted light level and occupancy controller	197.32

## Lighting Control

### OC Occupancy Detectors

#### OC-C-LVN



Part code	Description	\$
OC-C-LVN	Ceiling Mounted, PIR Occupancy Detector	103.63

#### OC-W-LV



Part code	Description	\$
OC-W-LV	Wall Mounted, PIR Occupancy Detector	97.75

#### OC-C-M



Part code	Description	\$
OC-C-M	Ceiling Mounted, Microwave Occupancy Detector	137.91

## Power Monitor

### PM-CS Current Switches



Part code	Description	\$
<b>Adjustable Setpoint Types</b>		
PM-CS-A-01	0.75 to 150A 30Vac/dc, split core	127.55
PM-CS-A-02	0.5 to 150A 30Vac/dc, solid core	127.55
PM-CS-A-03	0.75 to 150A 240Vac, split core	167.10
<b>Fixed Setpoint Types</b>		
PM-CS-F-01	0.35 to 150A 30Vac/dc, split core	106.12
PM-CS-F-02	0.25 to 150A 30Vac/dc, solid core	61.97
PM-CS-F-03	0.50 to 150A 240Vac, split core	161.28

### PM-CTR Current Transducers



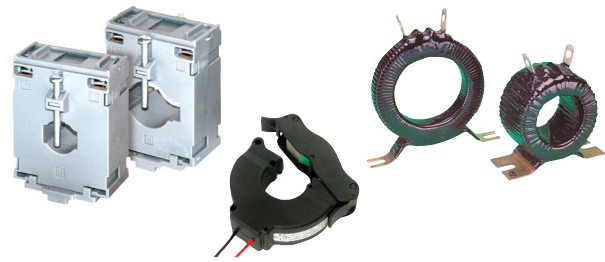
Part code	Description	\$
<b>4-20mA Output</b>		
PM-CTR-01	0 to 20A, split core Current Transducer	198.65
PM-CTR-02	0 to 50A, split core Current Transducer	198.65
PM-CTR-03	0 to 100A, split core Current Transducer	198.65
PM-CTR-04	0 to 20A, solid core Current Transducer	92.81
PM-CTR-05	0 to 50A, solid core Current Transducer	92.81
PM-CTR-06	0 to 100A, solid core Current Transducer	92.81
<b>0-5Vdc Output</b>		
PM-CTR-07	0 to 10A, solid core Current Transducer	98.86
PM-CTR-08	0 to 20A, solid core Current Transducer	98.86
PM-CTR-09	0 to 50A, solid core Current Transducer	98.86
PM-CTR-10	0 to 100A, solid core Current Transducer	98.86
<b>0-10Vdc Output</b>		
PM-CTR-11	20/50/100A, split core Current Transducer	153.86

**PM-EM210 Energy Analyser (DIN-rail or panel mounted)**

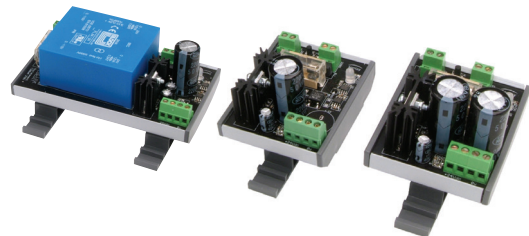

Part code	Description	\$
PM-EM210-P	Energy Analyser – Pulsed Output	439.08
PM-EM210-M	Energy Analyser – ModBus Output	582.64
<b>Option (add to part code above)</b>		
-B+D	Annex B+D Certification	325.15

**PM-EM24 Energy Analyser (DIN-rail)**


Part code	Description	\$
PM-EM24-P	Energy Analyser - Pulsed Output	799.21
PM-EM24-M	Energy Analyser - Modbus Output	1022.56
<b>Option (add to part code above)</b>		
-D	Annex -D Certification	223.30
<b>Accessory</b>		
PM-PMK	Panel door mounting kit	70.72

**PM-CT Current Transformers**


Part code	Description	\$
<b>Moulded Types</b>		
PM-CT-M100	100A, 2.5VA Current Transformer	75.54
PM-CT-M150	150A, 2.5VA Current Transformer	75.54
PM-CT-M200	200A, 5VA Current Transformer	88.87
PM-CT-M250	250A, 5VA Current Transformer	88.87
PM-CT-M300	300A, 5VA Current Transformer	88.87
PM-CT-M400	400A, 5VA Current Transformer	88.87
PM-CT-M500	500A, 10VA Current Transformer	104.22
PM-CT-M600	600A, 10VA Current Transformer	104.22
PM-CT-M800	800A, 10VA Current Transformer	104.22
<b>Split Core Types</b>		
PM-CT-100SC	100A, 1VA Current Transformer	160.90
PM-CT-150SC	150A, 1.5VA Current Transformer	160.90
PM-CT-200SC	200A, 2.5VA Current Transformer	160.90
PM-CT-250SC	250A, 2.5VA Current Transformer	160.90
PM-CT-300SC	300A, 2.5VA Current Transformer	160.90
PM-CT-400SC	400A, 5VA Current Transformer	167.50
PM-CT-500SC	500A, 5VA Current Transformer	167.50
PM-CT-600SC	600A, 5VA Current Transformer	167.50
PM-CT-800SC	800A, 5VA Current Transformer	167.50
<b>Ring Types</b>		
PM-CT-R50	50A, 2.5VA Current Transformer	75.54
PM-CT-R100	100A, 10VA Current Transformer	76.09
PM-CT-R150	150A, 15VA Current Transformer	82.09
PM-CT-R250	250A, 15VA Current Transformer	93.60
PM-CT-R300	300A, 15VA Current Transformer	93.60
PM-CT-R400	400A, 15VA Current Transformer	95.28
PM-CT-R500	500A, 15VA Current Transformer	88.68
PM-CT-R800	800A, 15VA Current Transformer	98.55

**PS 24Vdc Output Supplies**


Part code	Description	\$
PS-24-24DC-1A	24Vac-24Vdc, 1A floating Supply Module	88.80
PS-24-24DC-E	24Vac-24Vdc, grounded Supply Module	94.45
PS-230-24DC-1A	240Vac-24Vdc, 1A Supply Module	177.09



# Pressure

## PA-699 Multi-range Air DP Sensor



Part code	Description	\$
PA-699-01	±30, ±50 & ±100Pa, 4-20mA Multi Range, Bi-directional	394.33
PA-699-02	0 to 30, 50, 100Pa, 4-20mA Multi Range	394.33
PA-699-04	0 to 100, 300, 500Pa, 4-20mA Multi Range	394.33
PA-699-06	0 to 500, 1000, 1600Pa, 4-20mA Multi Range	394.04
PA-699-08	0 to 1600, 2500, 5000Pa, 4-20mA Multi Range	394.33
<b>Suffix (add to above part code)</b>		
-V	0-10V voltage output	0.00
-LCD	Integral LCD option	208.31
<b>Accessories</b>		
DFK	Duct fixing kit	9.82
TEE	Tee piece air pressure (pack of 10)	77.18
PITOT	Aluminium Pitot Tubes (pair)	23.61
PA-TUBE-CLEAR	PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-BRK	DIN-rail bracket	20.93
PA-699-CAL *	Calibration certificate	69.78

**Notes:** \* This option must be specified at time of sensor order. They are built to order and not available ex-stock. 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-DPT 3-wire Multi-Range Air Differential Pressure Transmitter



Part code	Description	\$
PA-DPT-01	Air DP Sensor 1.5% Acc 0-25/50/100/150/250/300/500&±50Pa	202.85
PA-DPT-01-HA	Air DP Sensor 1% Acc 0-25/50/100/150/250/300/500&±50Pa	301.03
PA-DPT-02	Air DP Sensor 1.5% Acc 0-125/250/500/750/1250/1500/2500&±250Pa	202.85
<b>Suffix (add to above part code)</b>		
-LCD	Integral LCD display	114.90
<b>Accessories</b>		
DFK	Duct fixing kit	9.82
TEE	Tee piece air pressure (pack of 10)	77.18
PITOT	Aluminum Pitot Tubes (Pair)	23.61
PA-TUBE-CLEAR	Clear PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95

## PA-DPT 2-wire Multi-Range Air Differential Pressure Transmitter, 2-wire



Part code	Description	\$
PA-DPT-04	Air DP sensor, 0 - 25/50/100/150/250/300/500Pa & ±50Pa	357.98
PA-DPT-05	Air DP sensor, 0 - 125/250/500/750/1250/1500/2500Pa & ±250Pa	357.98
<b>Suffix (add to above part code)</b>		
-LCD	Integral LCD Display	114.90
<b>Accessories</b>		
DFK	Duct fixing kit	9.82
TEE	Tee piece air pressure (pack of 10)	77.18
PITOT	Aluminum Pitot Tubes (Pair)	23.61
PA-TUBE-CLEAR	Clear PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95

**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



Part code	Description	\$
PA-267-25	0 to 25Pa 4-20mA Transmitter	453.71
PA-267-50	0 to 50Pa 4-20mA Transmitter	453.71
PA-267-100	0 to 100Pa 4-20mA Transmitter	453.71
PA-267-300	0 to 300Pa 4-20mA Transmitter	453.71
PA-267-500	0 to 500Pa 4-20mA Transmitter	453.71
PA-267-1000	0 to 1000Pa 4-20mA Transmitter	453.71
PA-267-1600	0 to 1600Pa 4-20mA Transmitter	453.71
PA-267-2500	0 to 2500Pa 4-20mA Transmitter	453.71
PA-267-3000	0 to 3000Pa 4-20mA Transmitter	453.71
<b>Suffix (add to above part code)</b>		
-CAL	Calibration Certificate for PA-267	134.25
-AH	0.4% High Accuracy for PA-267	201.63
-V	Voltage Output (0-10V) for PA-267	0.00
-B	Bi-Directional for PA-267	67.19
-LCD	Integral LCD Display for PA-267	268.87
<b>Accessories</b>		
DFK	Duct fixing kit	10.74
TEE	Tee Piece Air Pressure 6mm Pack of 10	84.39
PA-TUBE-CLEAR	Clear PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-8MM	PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95

**PA-DPS**      **Air DP Switch**



Part code	Description	\$
<b>IP54 Housing</b>		
PA-DPS-88	20 to 300Pa DP Switch	45.22
PA-DPS-83	50 to 500Pa DP Switch	45.22
PA-DPS-85	200 to 1000Pa DP Switch	45.22
<b>Accessories</b>		
PA-DPS-B	Right angled mount bracket	10.77
<b>IP65 Housing</b>		
PA-DPS-90W	20 to 300Pa DP Switch	96.97
PA-DPS-91W	50 to 500Pa DP Switch	96.97
PA-DPS-92W	100 to 1000Pa DP Switch	96.97
PA-DPS-94W	500 to 2000Pa DP Switch	96.97
<b>Accessories</b>		
DFK	Duct fixing kit	10.74
TEE	Tee piece air pressure (pack of 10)	84.39
PITOT	Aluminium Pitot Tubes (pair)	25.81
PA-TUBE-CLEAR	Clear PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-RED	Red PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-BLUE	Blue PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95

**PL-PSA**      **Liquid Pressure Switch**



Part code	Description	\$
PL-PSA-1	-0.75 to +3 bar	88.88
PL-PSA-2	-0.8 to +1.5 bar	88.88
PL-PSA-3	-0.5 to +7 bar	91.55
<b>Accessories</b>		
PL-PIG	2m of 6mm copper tubing + fitting	81.15
BRK	Bracket for PL-PSAx	11.53

**PL-FD113**      **Liquid DP Switch**



Part code	Description	\$
PL-FD113	0.3 to 4.5 bar Liquid DP Switch	184.37
<b>Accessories</b>		
PL-FD113-PIG	Connection Kit	75.34

**PL-625**      **Static Pressure Switch**



Part code	Description	\$
PL-625-2.2	0.12 to 2.2 bar Switch	172.54
PL-625-6	1 to 6 bar Switch	172.54

**PL-630-A**      **Differential Pressure Switch**



Part code	Description	\$
PL-630-A-0.02	6 to 20 mbar Liquid DP Switch	363.64
PL-630-A-0.06	15 to 60 mbar Liquid DP Switch	363.64
PL-630-A-0.2	40 to 200 mbar Liquid DP Switch	363.64
PL-630-A-1	0.15 to 1 bar Liquid DP Switch	306.15
PL-630-A-3	1 to 3 bar Liquid DP Switch	306.15
PL-630-A-5.5	2 to 5.5 bar Liquid DP Switch	306.15
<b>Accessories</b>		
PL-630-PIG	Connection Kit	75.34

**Note:** The PL-630-PIG consist at 2m of 6mm copper tubing and 4 x compression fittings (2x<sup>1</sup>/<sub>8</sub>" + 2x<sup>1</sup>/<sub>4</sub>" )

## PL-52x

## Static Pressure Sensor



Part code	Description		\$
<b>4-20mA Output (2-wire loop powered)</b>			
PL-525-0.1	0 to 100 mbar	Low Pressure	340.29
PL-525-0.2	0 to 200 mbar		340.29
PL-525-0.3	0 to 300 mbar		340.29
PL-525-0.6	0 to 600 mbar		340.29
PL-520-1	0 to 1 bar		346.54
PL-520-1.6	0 to 1.6 bar		346.54
PL-520-2.5	0 to 2.5 bar	346.54	
PL-520-4	0 to 4 bar	346.54	
PL-520-6	0 to 6 bar	346.54	
PL-520-10	0 to 10 bar	346.54	
PL-520-16	0 to 16 bar	346.54	
PL-520-25	0 to 25 bar	346.54	
PL-520-40	0 to 40 bar	346.54	
<b>0-10Vdc Output</b>			
PL-525-0.1-V	0 to 100 mbar	Low Pressure	340.29
PL-525-0.2-V	0 to 200 mbar		340.29
PL-525-0.3-V	0 to 300 mbar		340.29
PL-525-0.6-V	0 to 600 mbar		340.29
PL-520-1-V	0 to 1 bar		379.82
PL-520-1.6-V	0 to 1.6 bar		379.82
PL-520-2.5-V	0 to 2.5 bar	379.82	
PL-520-4-V	0 to 4 bar	379.82	
PL-520-6-V	0 to 6 bar	379.82	
PL-520-10-V	0 to 10 bar	379.82	
PL-520-16-V	0 to 16 bar	379.82	
PL-520-25-V	0 to 25 bar	379.82	
PL-520-40-V	0 to 40 bar	379.82	
<b>Accessories</b>			
PL-HS	Pressure Transmitter Heat Sink		167.23
PL-525-CAL *	Calibration certificate		98.76
PL-520-CAL *	Calibration certificate		98.76

**Notes:**

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

## PL-652

## Low Range Differential Pressure Sensor



Part code	Description	\$
<b>4-20mA Output (3-wire)</b>		
PL-652-0.05	0 to 50 mbar Liquid DP Sensor	750.91
<b>0-10Vdc Output</b>		
PL-652-0.05-V	0.15 to 1 bar Liquid DP Sensor	815.40
<b>Accessory</b>		
PL-652-CAL *	Calibration certificate	86.96

**Notes:**

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.

## PL-692

## Differential Pressure Sensor



Part code	Description	\$
<b>4-20mA Output (2-wire loop powered)</b>		
PL-692-0.1	0 to 100 mbar Liquid DP Sensor	692.90
PL-692-0.2	0 to 200 mbar Liquid DP Sensor	692.90
PL-692-0.4	0 to 400 mbar Liquid DP Sensor	692.90
PL-692-1	0 to 1 bar Liquid DP Sensor	635.96
PL-692-2.5	0 to 2.5 bar Liquid DP Sensor	635.96
PL-692-4	0 to 4 bar Liquid DP Sensor	635.96
PL-692-6	0 to 6 bar Liquid DP Sensor	635.96
PL-692-10	0 to 10 bar Liquid DP Sensor	635.96
PL-692-16	0 to 16 bar Liquid DP Sensor	635.96
<b>0-10Vdc Output</b>		
PL-692-0.1-V	0 to 100 mbar Liquid DP Sensor	830.01
PL-692-0.2-V	0 to 200 mbar Liquid DP Sensor	830.01
PL-692-0.4-V	0 to 400 mbar Liquid DP Sensor	830.01
PL-692-1-V	0 to 1 bar Liquid DP Sensor	830.01
PL-692-2.5-V	0 to 2.5 bar Liquid DP Sensor	830.01
PL-692-4-V	0 to 4 bar Liquid DP Sensor	830.01
PL-692-6-V	0 to 6 bar Liquid DP Sensor	830.01
PL-692-10-V	0 to 10 bar Liquid DP Sensor	830.01
PL-692-16-V	0 to 16 bar Liquid DP Sensor	830.01
<b>Accessory</b>		
PL-692-CAL *	Calibration certificate	93.83

**Notes:**

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.

SORA - Sontay Open Range Application

# Introduction to SORA

Gateway



Part code	Description	\$
RF-LW-HUB-EU868-100	SORA Hub 100 Points European	5753.17
RF-LW-HUB-EU868-250	SORA Hub 250 Points European	8142.65
RF-LW-HUB-EU868-1000	SORA Hub 1000 Points European	10670.81
RF-LW-HUB-EU868-5000	SORA Hub 5000 Points European	14201.88



Temperature only

Part code	Description	\$
RF-LW-T-S	Space mounted temp sensor	219.08
RF-LW-T-D	Duct mounted temp sensor	270.77
RF-LW-T-I	Immersion temp sensor	256.72
RF-LW-T-C	Clamp-on temp sensor	273.56
RF-LW-T-O	Outside air temp sensor	249.50
RF-LW-T-OR	Outside air with rad shield temp sensor	288.07
RF-LW-T-555	Flying lead temp sensor	263.55

Temperature & Humidity

Part code	Description	\$
RF-LW-RH-D	Duct mounted temp and humidity sensor	327.88
RF-LW-RH-W	Wall mounted temp and humidity sensor	347.67
RF-LW-RH-O	Outside temp and humidity sensor	588.17
RF-LW-RH-S	Space mounted temp and humidity sensor	325.87

Temperature & CO2

Part code	Description	\$
RF-LW-CO2-T-S	Space mounted temp and CO <sub>2</sub> sensor	499.32

CO<sub>2</sub> only

Part code	Description	\$
RF-LW-CO2-T-S	Space mounted CO <sub>2</sub> sensor	499.32
RF-LW-CO2-T-D	Duct mounted CO <sub>2</sub> sensor	628.45

Temperature, Humidity & CO<sub>2</sub>

Part code	Description	\$
RF-LW-RHT-CO2-S	Space mounted temp and humidity sensor	577.23

Accessories

Part code	Description	\$
RF-AERIAL-PM0.75	Aerial Extension c/w Bulk Head Fitting 0.75 Metre	81.72
RF-AERIAL-PM2	Aerial Extension c/w Bulk Head Fitting 2 Metre	96.70
RF-AERIAL-PM5	Aerial Extension c/w Bulk Head Fitting 5 Metre	178.88
RF-LS14500-S2	SORA Batteries Pack of 10	147.81

## What makes it different to other wireless protocols?



Reliability



Interoperability



Security



Accuracy



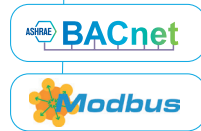
Range



## Smart Communication – Protocols

### PA-DPT

### Multi-Configurable Air DP Sensor



Part code	Description	\$
PA-DPT	0 to 50, 100, 300 & 500Pa Multi Range Selectable 0-10Vdc or 4-20mA Selectable Output ModBus/BACnet	307.94
<b>Accessories</b>		
DFK	Duct fixing kit	9.82
TEE	Tee piece air pressure (pack of 10)	77.18
PA-TUBE-CLEAR	PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-RED	PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95
PA-TUBE-BLUE	PVC tube 8mm o/d x 1.5mm wall, 30m reel	70.95

*Note:* A duct fixing kit (DFK) is supplied with the sensor, consisting of 2m (6.56 ft) 5mm (0.20") i/d plastic tubing, 2 x pitot tubes and 4 x fixing screws.

### SC-FS-IOT

### FieldServer BACnet Internet of Things Gateway



Part code	Description	\$
SC-FS-IOT-BAC	BACnet IoT Gateway	please ask
SC-FS-IOT-BAC-W	BACnet Internet of Things Gateway (WiFi only)	please ask
SC-FS-IOT-BAC-C	BACnet Internet of Things Gateway (WiFi and cellular)	please ask

### SC-FS-ROUTER-BAC

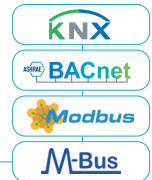
### Fieldserver BACnet Router



Part code	Description	\$
SC-FS-ROUTER-BAC2	FieldServer BACnet Router (Single Port)	please ask
SC-FS-ROUTER-BACW	FieldServer Wifi BACnet Router (Single Port)	please ask

### SC-FS-EZ

### Fieldserver EZ Gateways into BACnet/Modbus



Part code	Description		\$
SC-FS-EZ1-MBUS-MOD-BAC	EZ Gateway, M-Bus to Modbus/BACnet	16 devices, 500 points	please ask
SC-FS-EZ2-MBUS-MOD-BAC	EZ Gateway, M-Bus to Modbus/BACnet	32 devices, 1000 points	please ask
SC-FS-EZ3-MBUS-MOD-BAC	EZ Gateway, M-Bus to Modbus/BACnet	64 devices, 5000 points	please ask
SC-FS-EZ3-MOD-BAC	EZ Gateway, Modbus to BACnet	500 points	please ask
SC-FS-EZ4-MOD-BAC	EZ Gateway, Modbus to BACnet	1000 points	please ask
SC-FS-EZ1-KNX-BAC	EZ Gateway, KNX to BACnet	500 points	please ask
SC-FS-EZ2-KNX-BAC	EZ Gateway, KNX to BACnet	1000 points	please ask

### SC-FS-QS-2x10-F

### Quickserver 2xx0 Series Full Function Gateways

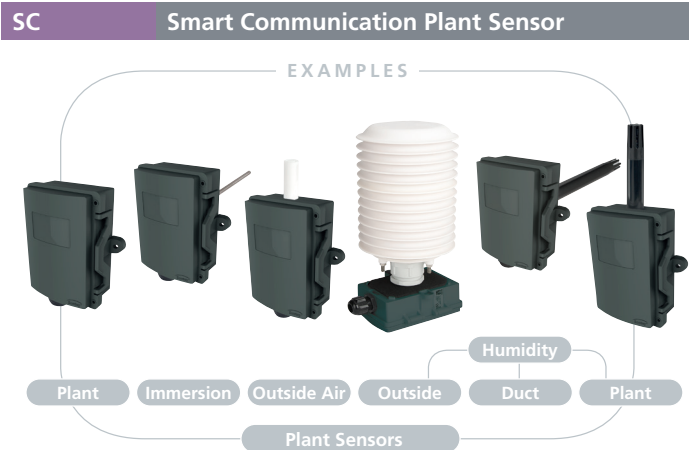
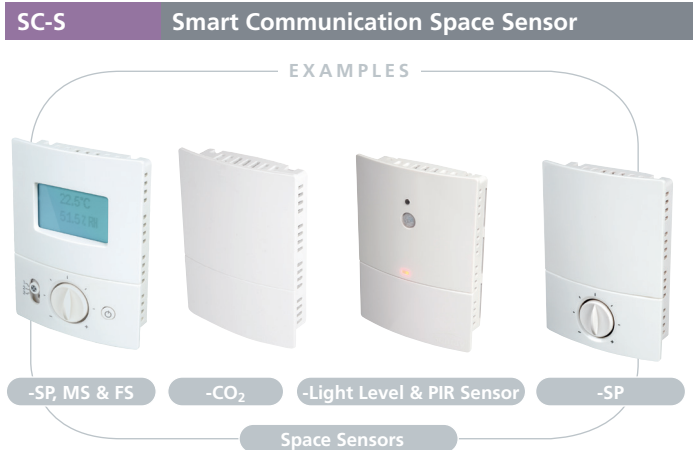


Part code	Description		\$
SC-FS-QS-2010-F	Quickserver 2xx0 Series Full Function	250 points	please ask
SC-FS-QS-2210-F	Quickserver 2xx0 Series Full Function	500 points	please ask
SC-FS-QS-2310-F	Quickserver 2xx0 Series Full Function	3000 points	please ask
SC-FS-QS-2410-F	Quickserver 2xx0 Series Full Function	5000 points	please ask

★ Prices for the SC-FS gateways range are Net prices as per manufacturer policy. Discount cannot be applied to these prices.



## SMART COMMUNICATION SENSORS



Part code	Description	\$
<b>SPACE SENSOR</b>		
SC - S - x x x x x x	Space Temperature <a href="#">Configuration Sensing Options RH/CO<sub>2</sub></a>	332.60
0	- none	0.00
1	- RH	66.52
2	- CO <sub>2</sub>	155.21
3	- CO <sub>2</sub> and Traffic Light LED	221.73
4	- RH and CO <sub>2</sub>	221.73
5	- RH, CO <sub>2</sub> and Traffic Light LED	288.25
<a href="#">Configuration Sensing Options CO/IAQ</a>		
0	- none	0.00
1	- CO	155.21
2	- IAQ	221.73
3	- CO and IAQ	376.94
<a href="#">Configuration User Indication</a>		
0	- none	0.00
1	- LCD Display	177.38
2	- Light Level Sensor	155.21
3	- PIR Sensor	155.21
4	- Light Level and PIR Sensor	243.90
<a href="#">Configuration Interface Options</a>		
0	- none	0.00
1	- SP	33.26
2	- MS	44.35
4	- SP and MS	70.95
7	- SP, MS and FS	99.78
<a href="#">Configuration Digital Outputs</a>		
0	- none	0.00
1	- 2x DO	55.43
<a href="#">Configuration Analogue Outputs</a>		
0	- none	0.00
1	- 3x AO	55.43

Part code	Description	\$
<b>DUCT SENSOR</b>		
SC - D - x x x 0 x x	Duct Temperature and RH <a href="#">Configuration Sensing Options CO<sub>2</sub></a>	421.29
0	- none	0.00
1	- CO <sub>2</sub>	155.21
2	- CO <sub>2</sub> and Traffic Light LED	221.73
<a href="#">Configuration Sensing Options CO/IAQ</a>		
0	- none	0.00
1	- CO	0.00
2	- IAQ	221.73
3	- CO and IAQ	376.94
<a href="#">Configuration User Indication</a>		
0	- none	0.00
1	- LCD Display	177.38
<a href="#">Configuration Digital Outputs</a>		
0	- none	0.00
1	- 2x DO	55.43
<a href="#">Configuration Analogue Outputs</a>		
0	- none	0.00
1	- 3x AO	55.43
<b>IMMERSION / DUCT TEMPERATURE</b>		
SC - I - 0 0 x 0 x x	Immersion/Duct Temperature <a href="#">Configuration User Indication</a>	354.77
0	- none	0.00
1	- LCD Display	177.38
<a href="#">Configuration User Indication</a>		
0	- none	0.00
1	- 2x DO	55.43
<a href="#">Configuration Analogue Input</a>		
0	- none	0.00
1	- 3x AO	55.43

### Smart Sensor Addressing Service

We can setup the local MAC address and network settings for your Smart Sensor to support you in reducing installation time. All we need from you are the desired network parameters and MAC addresses with corresponding location identifiers (e.g. room number) for where the sensors will be fitted.

For more information, contact the Technical Support Team.

The sensors are shipped to site fully configured and clearly labelled up, to make the installation and commissioning literally plug and play. This drastically reduces complexity and configuration required on site.

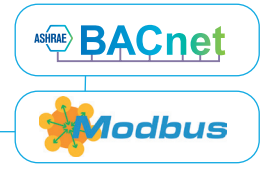
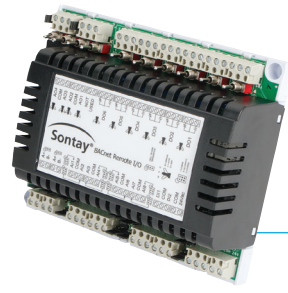
Part code	Description	\$
AC-SERVICE-SC	Service Charge Smart Sensor	33.26



Part code	Description	\$
<b>PLANT SENSOR</b>		
SC - W - x 0 x 0 x x	Plant Temperature	299.34
	<b>Configuration Sensing Options RH/CO<sub>2</sub></b>	
0	- none	0.00
1	- RH	66.52
	<b>Configuration User Indication</b>	
0	- none	0.00
1	- LCD Display	177.38
2	- Light Level Sensor *	155.21
3	- PIR Sensor *	155.21
4	- Light Level and PIR Sensor *	243.90
	<b>Configuration Digital Outputs</b>	
0	- none	0.00
1	- 2x DO	55.43
	<b>Configuration Analogue Outputs</b>	
0	- none	0.00
1	- 3x AO	55.43
<b>OUTSIDE WALL SENSOR (RAD SHIELD)</b>		
SC - O - x 0 x 0 x x	Outside Temperature (Radiation Shield)	432.38
	<b>Configuration Sensing RH</b>	
0	- none	0.00
1	- RH	66.52
	<b>Configuration User Indication</b>	
0	- none	0.00
1	- LCD Display	177.38
2	- Light Level Sensor*	155.21
3	- PIR sensor*	155.21
4	- Light Level and PIR Sensor*	243.90
	<b>Configuration Digital Outputs</b>	
0	- none	0.00
1	- 2x DO	55.43
	<b>Configuration Analogue Outputs</b>	
0	- none	0.00
1	- 3x AO	55.43

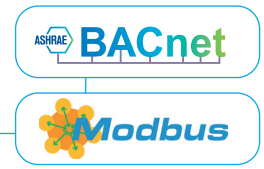
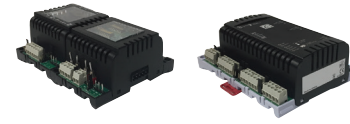
\* Note: Not available for RH configurations

**SC-IO-24 Smart I/O Modules**



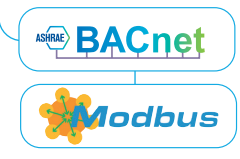
Part code	Description	\$
SC-IO-24	Smart Communication IO Module BACnet / ModBus	395.71

**SC-IO-10x Smart Remote IO Modules**



Part code	Description	\$
SC-IO-100	Smart Communication IO Module 8 U/I	304.64
SC-IO-102	Smart Communication IO Module 4 U/I, 2 U/O & 2 B/O	342.71

**SC-gateways Gateways for Air Conditioners**



Part code	Description	\$
<b>BACnet server gateways for Air Conditioners</b>		
SC-DK-AC-BAC-1	AC Gateway Daikin Domestic line S21 - BACnet	840.04
SC-DK-RC-BAC-1	AC Gateway Daikin Skyair/VAV line P1P2 - BACnet	840.04
SC-TO-RC-BAC-1	AC Gateway Toshiba - BACnet	840.04
SC-ME-AC-BAC-1	AC Gateway Mitsubishi - BACnet	840.04
<b>Modbus slave gateways for Air Conditioners</b>		
SC-DK-AC-MBS-1	AC Gateway Daikin Domestic line S21 - Modbus	707.23
SC-DK-RC-MBS-1	AC Gateway Daikin Skyair/VAV line P1P2 - Modbus	707.23
SC-TO-RC-MBS-1	AC Gateway Toshiba - Modbus	707.23
SC-ME-AC-MBS-1	AC Gateway Mitsubishi - Modbus	707.23



Models	Temp.	RH	PIR	\$
● SC-RC1-T-WG	•			471.42
● SC-RC1-T-BB				471.42
○ SC-RC1-T-WB				471.42
● SC-RC1-RHT-WG	•	•		805.37
● SC-RC1-RHT-BB				805.37
○ SC-RC1-RHT-WB				805.37
● SC-RC1-T-PIR-WG	•		•	559.52
● SC-RC1-T-PIR-BB				559.52
○ SC-RC1-T-PIR-WB				559.52
● SC-RC1-RHT-PIR-WG	•	•	•	894.42
● SC-RC1-RHT-PIR-BB				894.42
○ SC-RC1-RHT-PIR-WB				894.42

Models	Temp.	RH	PIR	CO <sub>2</sub>	VOC	\$
● SC-RC2-T-WG	•					650.49
● SC-RC2-T-BB						650.49
○ SC-RC2-T-WB						650.49
● SC-RC2-RHT-WG	•	•				987.37
● SC-RC2-RHT-BB						987.37
○ SC-RC2-RHT-WB						987.37
● SC-RC2-RHT-CO2-WG	•	•		•		1547.35
● SC-RC2-RHT-CO2-BB						1547.35
○ SC-RC2-RHT-CO2-WB						1547.35
● SC-RC2-T-PIR-WG	•		•			717.28
● SC-RC2-T-PIR-BB						717.28
○ SC-RC2-T-PIR-WB						717.28
● SC-RC2-RHT-PIR-WG	•	•	•			1051.25
● SC-RC2-RHT-PIR-BB						1051.25
○ SC-RC2-RHT-PIR-WB						1051.25
● SC-RC2-RHT-CO2P-WG	•	•		•	•	1854.67
● SC-RC2-RHT-CO2P-BB						1854.67
○ SC-RC2-RHT-CO2P-WB						1854.67
● SC-RC2-RHT-CO2PV-WG	•	•	•	•	•	1943.74
● SC-RC2-RHT-CO2PV-BB						1943.74
○ SC-RC2-RHT-CO2PV-WB						1943.74

# Relative Humidity & Temperature Sensors

**RH-S****Space Relative Humidity and Temperature Sensor****SPACE SENSORS ±3%**

Part code	Description	\$
RH-S	Space RH & T Transmitter (±3%)	250.96
RH-S-EN	Space Enthalpy & Dewpoint Transmitter	394.13

**RH-S-UN****Space Relative Humidity Sensor**

Part code	Description	\$
RH-S-UN	Space RH Transmitter Single analogue output	167.34

**SPACE SENSORS ±2%**

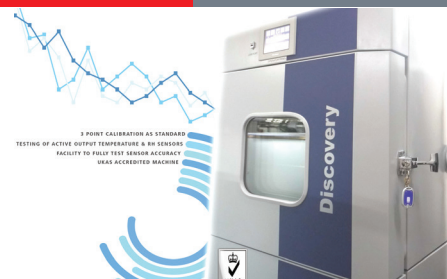
Part code	Description	\$
RH-S-AH	Space RH & T High Accuracy Transmitter (±2%)	321.93

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T *	Direct resistive temperature output	36.85
-SP	1-11kΩ setpoint	30.09
-MS	Momentary switch	36.85
-LCD	Integral LCD display	125.21
-BLK**	Black space housing	11.88
<b>Accessories</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

**Notes:** 1. \*-T version uses a thermistor element for direct measurement of temperature. Please specify thermistor type when ordering.

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T*	Direct resistive temperature output	44.21
-SP	11-1kΩ/0-10kΩ setpoint	36.10
-MS	Momentary switch	44.21
-LCD	Integral LCD display	150.27
-TR	Custom temperature output range	35.01
-5V	0 - 5V option	0.00
-BLK**	Black space housing	11.88
<b>Accessories</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

**Notes:** 1. \*-T version uses a thermistor element for direct measurement of temperature. Please specify thermistor type when ordering.  
2. RH-6xx-EN versions only output enthalpy and dewpoint values.

**RH-CAL****Calibration**

Part code	Description	\$
RH-CAL	3-Point calibration at 30, 50 & 75% RH at 20°C	460.42
RH-CAL-ADP	Additional calibration point, select between 20 & 80%RH	76.72

**RH** Duct, wall, outside and remote probe RH and Temperature Sensor

**DUCT SENSORS**



Part code	Description	\$
RH-D	Duct RH & T Transmitter ( $\pm 2\%$ )	314.95
RH-D-AH	Duct RH & T High Accuracy Transmitter ( $\pm 3\%$ )	367.43
RH-D-EN	Duct Enthalpy & Dewpoint Transmitter	419.91

**WALL SENSORS**



Part code	Description	\$
RH-W	Wall RH & T Transmitter ( $\pm 3\%$ )	314.95
RH-W-AH	Wall RH & T Transmitter ( $\pm 2\%$ )	367.43
RH-W-EN	Wall Enthalpy & Dewpoint Transmitter	419.91

**OUTSIDE**



Part code	Description	\$
RH-O	Outside RH & T Transmitter ( $\pm 3\%$ )	908.03
RH-O-AH	Outside RH & T Transmitter ( $\pm 2\%$ )	974.53
RH-O-EN	Outside Enthalpy & Dewpoint Transmitter	1027.06

**REMOTE**



Part code	Description	\$
RH-R	Remote probe RH & T Transmitter ( $\pm 3\%$ )	439.67
RH-R-AH	Remote probe T and RH Sensor $\pm 2\%$	514.44
RH-R-EN	Remote probe Enthalpy & Dewpoint Sensor	571.60

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T *	Direct resistive temperature output	44.21
-LCD	Integral LCD display	150.27
-TR	Custom temperature output range	35.01
<b>Accessory</b>		
DPA	Duct probe adjustment flange (for RH-D only)	54.76

**Notes:** 1. \*-T version uses a thermistor element for direct measurement of temperature. Please specify thermistor type when ordering.  
2. RH-6xx-EN versions only output enthalpy and dewpoint values.

**RH-D-UN** Single Output Duct, wall and outside Relative Humidity Sensor

**DUCT SENSORS**



Part code	Description	\$
RH-D-UN	Duct RH Transmitter, Single Analogue Output ( $\pm 3\%$ )	209.14

**WALL SENSORS**



Part code	Description	\$
RH-W-UN	Wall RH Transmitter, Single Analogue Output	199.51

**OUTSIDE**



Part code	Description	\$
RH-O-UN	OutsideRH Transmitter, Single Analogue Output	605.35

Part code	Description	\$
<b>Suffixes (add to part code)</b>		
-T *	Direct resistive temperature output	36.85
-LCD	Integral LCD display	125.21
<b>Accessory</b>		
DPA	Duct probe adjustment flange (for RH-D-UN only)	54.76

**Notes:** 1. \*-T version uses a thermistor element for direct measurement of temperature. Please specify thermistor type when ordering.



**RH-SH****Humidistats**

Part code	Description	\$
<b>Room Humidistats</b>		
RH-SH-1R	Single-stage, concealed setpoint adjust.	147.81
RH-SH-1RE	Single-stage, exposed setpoint adjust.	157.65
<b>Duct Humidistats</b>		
RH-SH-1D	Single-stage, concealed setpoint adjust.	413.82
RH-SH-1DE	Single-stage, exposed setpoint adjust.	434.36

**ST****General Purpose Thermostats**

Part code	Description	\$
<b>Capillary</b>		
ST-C-01M	50 to 140°C Manual Reset	124.82
<b>Duct</b>		
ST-D-01A	-35 to +35°C Auto Reset	96.87
ST-D-02A	0 to 90°C Auto Reset	96.87
ST-D-03A	-30 to +30°C Auto Reset	157.65
ST-D-04M	0 to +90°C Manual Reset	147.81
<b>Immersion</b>		
ST-I-01A	0 to 120°C Auto Reset	82.75
ST-I-02M	0 to 110°C Manual Reset	97.23
ST-I-03M	20 to 90°C Manual Reset	124.82
<b>Wall</b>		
ST-W-01A	-30 to +30°C Auto Reset	131.34
<b>Strap-on</b>		
ST-S-02A	0 to 90°C Auto Reset	47.31
<b>Accessory</b>		
ST-IMM-PKT	Replacement stainless steel pocket (ST-I range only)	72.24

**ST-FRE****Capillary Frost Thermostats**

Part code	Description	\$
ST-FRE-1	Auto reset, 6m capillary, Frost Thermostat	93.10
ST-FRE-2	Manual reset, 6m capillary, Frost Thermostat	96.56
ST-FRE-3	Auto reset, 2m capillary, Frost Thermostat	123.16
ST-FRE-4	Manual reset, 2m capillary, Frost Thermostat	124.82
<b>IP65 Housing and Thermostat</b>		
ST-FRE-1-IP65	Auto reset, 6m capillary, Frost Thermostat	182.30
ST-FRE-2-IP65	Manual reset, 6m capillary, Frost Thermostat	192.10
ST-FRE-3-IP65	Auto reset, 2m capillary, Frost Thermostat	215.14
ST-FRE-4-IP65	Manual reset, 2m capillary, Frost Thermostat	218.41
<b>Accessories</b>		
ST-DFK	Pack of six additional plastic capillary fixing clips	18.03
BRK	Mounting bracket for ST-FREx	11.53

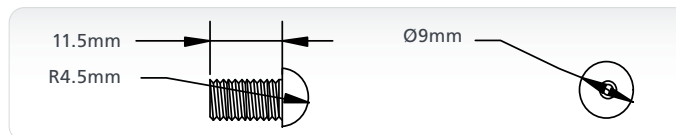
**Note:** All these thermostats include six capillary fixing clips as standard.

**ST-TY****Space Thermostats**

Part code	Description	Range	\$
ST-TY92-C1	Heating Thermostat	5 to 35°C	33.81
ST-TY92-C1F	Frost Thermostat	-5 to +15°C	34.33
ST-TY92-C3	Heating or Cooling Thermostat	5 to 35°C	36.54
ST-TY92-C3T	Heating or Cooling Tamperproof	5 to 35°C	41.09



Part code			Description	\$		
Stainless Steel	White Plastic	Black Plastic		Stainless Steel	White Plastic	Black Plastic
TT-512-SS-A	TT-512-WP-A	TT-512-BLK-A	10K3A1, Trend, Cylon, Distech, Heatmiser	31.20	27.90	27.90
TT-512-SS-B	TT-512-WP-B	TT-512-BLK-B	10K4A1, Andover, Delta Controls	31.20	27.90	27.90
TT-512-SS-C	TT-512-WP-C	TT-512-BLK-C	20K6A1, Honeywell	34.50	31.20	31.20
TT-512-SS-D	TT-512-WP-D	TT-512-BLK-D	PT100A, Serck	37.77	34.50	34.50
TT-512-SS-E	TT-512-WP-E	TT-512-BLK-E	PT1000A, Cylon	37.77	34.50	34.50
TT-512-SS-F	TT-512-WP-F	TT-512-BLK-F	Ni1000A, Sauter	41.09	37.77	37.77
TT-512-SS-G	TT-512-WP-G	TT-512-BLK-G	Ni1000A/TCR (LAN1), Siemens	41.09	37.77	37.77
TT-512-SS-L	TT-512-WP-L	TT-512-BLK-L	TAC1, TAC	47.62	44.34	44.34
TT-512-SS-M	TT-512-WP-M	TT-512-BLK-M	2.2K3A1, Johnson Controls	31.20	27.90	27.90
TT-512-SS-N	TT-512-WP-N	TT-512-BLK-N	3K3A1, Alerton	31.20	27.90	27.90
TT-512-SS-P	TT-512-WP-P	TT-512-BLK-P	30K6A1, Drayton	34.50	31.20	31.20
TT-512-SS-Q	TT-512-WP-Q	TT-512-BLK-Q	50K6A1, Ambiflex	34.50	31.20	31.20
TT-512-SS-Z	TT-512-WP-Z	TT-512-BLK-Z	10K NTC, Carel	34.50	31.20	31.20
<b>Suffix (add to part code)</b>						
-5M	5m probe length			6.60		
-LSZH	Low Smoke Zero Halogen option			9.02		



## TT-515

## Low Profile Plate Sensors



Part code		Description	\$	
Stainless Steel	White Plastic		Stainless Steel	White Plastic
TT-515-SS-A	TT-515-WP-A	10K3A1, Trend, Cylon, Distech, Heatmiser	68.97	40.90
TT-515-SS-B	TT-515-WP-B	10K4A1, Andover, Delta Controls	68.97	40.90
TT-515-SS-C	TT-515-WP-C	20K6A1, Honeywell	72.24	44.18
TT-515-SS-D	TT-515-WP-D	PT100A, Serck	75.54	47.45
TT-515-SS-E	TT-515-WP-E	PT1000A, Cylon	75.54	47.45
TT-515-SS-F	TT-515-WP-F	Ni1000A, Sauter	78.82	50.72
TT-515-SS-G	TT-515-WP-G	Ni1000A/TCR (LAN1), Siemens	78.82	50.72
TT-515-SS-H	TT-515-WP-H	SAT1, Satchwell	85.43	57.32
TT-515-SS-K	TT-515-WP-K	STA1, Landis & Staefa	85.43	57.32
TT-515-SS-L	TT-515-WP-L	TAC1, TAC	85.43	57.32
TT-515-SS-M	TT-515-WP-M	2.2K3A1, Johnson Controls	68.97	40.90
TT-515-SS-N	TT-515-WP-N	3K3A1, Alerton	68.97	40.90
TT-515-SS-P	TT-515-WP-P	30K6A1, Drayton	72.24	44.18
TT-515-SS-Q	TT-515-WP-Q	50K6A1, Ambiflex	72.24	44.18
TT-515-SS-R	TT-515-WP-R	100K6A1, York >40°C	72.24	57.44
TT-515-SS-S	TT-515-WP-S	SAT2, Satchwell	85.43	57.32
TT-515-SS-T	TT-515-WP-T	SAT3, Satchwell	85.43	57.32
TT-515-SS-W	TT-515-WP-W	SIE1, Siebe	72.24	44.18
TT-515-SS-Y	TT-515-WP-Y	STA2, Landis & Staefa	78.82	50.72
TT-515-SS-Z	TT-515-WP-Z	10K NTC, Carel	72.24	44.18
<b>Suffixes (add to part code)</b>				
-LSZH	Low Smoke Zero Halogen option		9.02	

## TT-518

## Thimble Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-518-A	10K3A1, Trend, Cylon, Distech, Heatmiser	30.42
TT-518-B	10K4A1, Andover, Delta Controls	30.42
TT-518-C	20K6A1, Honeywell	33.69
TT-518-D	PT100A, Serck	36.94
TT-518-E	PT1000A, Cylon	36.94
TT-518-F	Ni1000A, Sauter	40.26
TT-518-G	Ni1000A/TCR (LAN1), Siemens	40.26
TT-518-H	SAT1, Satchwell	46.79
TT-518-K	STA1, Landis & Staefa	46.79
TT-518-L	TAC1, TAC	46.79
TT-518-M	2.2K3A1, Johnson Controls	30.42
TT-518-N	3K3A1, Alerton	30.42
TT-518-P	30K6A1, Drayton	33.69
TT-518-Q	50K6A1, Ambiflex	33.69
TT-518-S	SAT2, Satchwell	46.79
TT-518-T	SAT3, Satchwell	46.79
TT-518-W	SIE1, Siebe	33.69
TT-518-Y	STA2, Landis & Staefa	40.26
TT-518-Z	10K NTC, Carel	33.69
<b>Active Output</b>		
TT-518-CVO	4-20mA/0-10Vdc selectable output * <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	147.81
TT-518-CVO-C	4-20mA/0-10Vdc selectable output (custom temp. scaling) *, Scaled to customer specification in the range of -10 to +60°C	178.18
<b>Suffixes (add to part code)</b>		
-AL	Aluminium thimble	30.39
-SS	Stainless steel thimble	66.50
-BLK	Black Thimble	0.00
-BR	Brass thimble	39.43
-5M	5m cable length	6.57
-LSZH	Low Smoke Zero Halogen option	9.02

**Notes:**

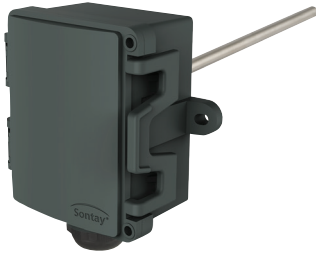
A calibration certificate is available on CVO Types see page 34.

If no colour is specified, standard off-white thimble will be supplied.

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



**Note for ALL sensors with CVO output options:**  
The stated ambient range overrides any CVO output details.

**TT-D Duct Sensors**


Part code	Description	\$
<b>Passive Output</b>		
TT-D-A	10K3A1, Trend, Cylon, Distech	31.20
TT-D-B	10K4A1, Andover, Delta Controls	31.20
TT-D-C	20K6A1, Honeywell	34.50
TT-D-D	PT100A, Serck	37.77
TT-D-E	PT1000A, Cylon	37.77
TT-D-F	Ni1000A, Sauter	41.09
TT-D-G	Ni1000A/TCR (LAN1), Siemens	46.53
TT-D-H	SAT1, Satchwell	47.62
TT-D-K	STA1, Landis & Staefa	47.62
TT-D-L	TAC1, TAC	34.50
TT-D-M	2.2K3A1, Johnson Controls	31.20
TT-D-N	3K3A1, Alerton	31.20
TT-D-P	30K6A1, Drayton	34.50
TT-D-Q	50K6A1	34.50
TT-D-R	100K6A1, York >40°C	34.50
TT-D-S	SAT2, Satchwell	47.62
TT-D-T	SAT3, Satchwell	47.62
TT-D-W	SIE1, Siebe	34.50
TT-D-Y	STA2, Landis & Staefa	41.09
TT-D-Z	10K NTC, Carel	34.50
<b>Active Output</b>		
TT-D-CVO	<b>Selectable:</b> 4-20mA/0-10Vdc <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	147.81
TT-D-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc (custom temp. scaling), Scaled to customer specification in the range of -30 to +70°C	178.18
<b>Suffixes (add to part code)</b>		
-65	65mm Probe length	0.00
-250	250mm Probe length	22.21
<b>Accessory</b>		
TT-DFP	Duct flange plate	31.20

Note: A calibration certificate is available on CVO Types see page 34.

**TT-DA Duct Averaging Sensors**


Part code	Description	\$
<b>Passive Output</b>		
TT-DA-A	10K3A1, Trend, Cylon, Distech	151.08
TT-DA-B	10K4A1, Andover, Delta Controls	151.08
TT-DA-C	20K6A1, Honeywell	164.23
TT-DA-D	PT100A, Serck	177.35
TT-DA-E	PT1000A, Cylon	177.35
TT-DA-F	Ni1000A, Sauter	190.49
TT-DA-G	Ni1000A/TCR (LAN1), Siemens	190.49
TT-DA-H	SAT1, Satchwell	216.78
TT-DA-K	STA1, Landis & Staefa	216.78
TT-DA-L	TAC1, TAC	164.23
TT-DA-M	2.2K3A1, Johnson Controls	151.08
TT-DA-N	3K3A1, Alerton	151.08
TT-DA-P	30K6A1, Drayton	164.23
TT-DA-Q	50K6A1, Ambiflex	159.43
TT-DA-R	100K6A1, York >40°C	169.11
TT-DA-S	SAT2, Satchwell	216.78
TT-DA-T	SAT3, Satchwell	216.78
TT-DA-W	SIE1, Siebe	164.23
TT-DA-Y	STA2, Landis & Staefa	177.35
TT-DA-Z	10K NTC, Carel	151.08
<b>Active Output</b>		
TT-DA-CVO	4-20mA/0-10Vdc selectable output, <b>Output ranges:</b> -10 to +40°C or -10 to +110°C – selectable	289.04
TT-DA-CVO-C	4-20mA/0-10Vdc selectable output (custom temp. scaling), Scaled to customer specification in the range of -30 to +70°C	319.41
<b>Suffix (add to part code)</b>		
-5M	5m probe length	88.64

Note: A calibration certificate is available on CVO Types see page 34.

## TT-TDA

## True Duct Averaging Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-TDA-PT100B	PT100B Thermistor Output	771.12
<b>Active Output</b>		
TT-TDA-CVO	4-20mA/0-10Vdc selectable output <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	852.47
TT-TDA-CVO-C	4-20mA/0-10Vdc selectable output (custom temp. scaling), Scaled to customer specification in the range of -30 to +70°C	932.14

Note: A calibration certificate is available on CVO Types see page 34.

## TT-O

## Outside Air Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-O-A	10K3A1, Trend, Cylon, Distech	27.90
TT-O-B	10K4A1, Andover, Delta Controls	27.90
TT-O-C	20K6A1, Honeywell	31.20
TT-O-D	PT100A, Serck	34.50
TT-O-E	PT1000A, Cylon	34.50
TT-O-F	Ni1000A, Sauter	37.77
TT-O-G	Ni1000A/TCR (LAN1), Siemens	46.53
TT-O-H	SAT1, Satchwell	44.34
TT-O-K	STA1, Landis & Staefa	44.34
TT-O-L	TAC1, TAC	31.20
TT-O-M	2.2K3A1, Johnson Controls	27.90
TT-O-N	3K3A1, Alerton	27.90
TT-O-P	30K6A1, Drayton	31.20
TT-O-Q	50K6A1	31.20
TT-O-R	100K6A1, York >40°C	31.20
TT-O-S	SAT2, Satchwell	44.34
TT-O-T	SAT3, Satchwell	44.34
TT-O-V	SAT4, Satchwell	44.34
TT-O-W	SIE1, Siebe	31.20
TT-O-Y	STA2, Landis & Staefa	37.77
TT-O-Z	10K NTC, Carel	31.20
<b>Active Output</b>		
TT-O-CVO	<b>Selectable:</b> 4-20mA/0-10Vdc <b>Output ranges:</b> -10 to +40°C or -10 to +110°C – selectable	147.81
TT-O-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc (custom temp.), Scaled to customer specification in the range of -30 to +70°C	178.18

Note: A calibration certificate is available on CVO Types see page 34.

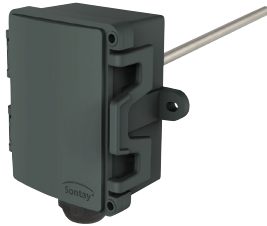
## TT-OR

## Outside Air Sensors with Radiation Shield



Part code	Description	\$
<b>Passive Output</b>		
TT-OR-A	10K3A1, Trend, Cylon, Distech	60.76
TT-OR-B	10K4A1, Andover, Delta Controls	60.76
TT-OR-C	20K6A1, Honeywell	64.03
TT-OR-D	PT100A, Serck	67.33
TT-OR-E	PT1000A, Cylon	67.33
TT-OR-F	Ni1000A, Sauter	70.65
TT-OR-G	Ni1000A/TCR (LAN1), Siemens	74.14
TT-OR-H	SAT1, Satchwell	77.18
TT-OR-K	STA1, Landis & Staefa	77.18
TT-OR-L	TAC1, TAC	64.03
TT-OR-M	2.2K3A1, Johnson Controls	60.76
TT-OR-N	3K3A1, Alerton	60.76
TT-OR-P	30K6A1, Drayton	64.03
TT-OR-Q	50K6A1, Ambiflex	64.03
TT-OR-R	100K6A1, York >40°C	64.03
TT-OR-S	SAT2, Satchwell	77.18
TT-OR-T	SAT3, Satchwell	77.18
TT-OR-V	SAT4, Satchwell	77.18
TT-OR-W	SIE1, Siebe	64.03
TT-OR-Y	STA2, Landis & Staefa	70.63
TT-OR-Z	10K NTC, Carel	64.03
<b>Active Output</b>		
TT-OR-CVO	4-20mA/0-10Vdc selectable output <b>Output ranges:</b> -10 to +40°C or -10 to +110°C – selectable	187.24
TT-OR-CVO-C	4-20mA/0-10Vdc selectable output (custom temp. scaling), Scaled to customer specification in the range of -30 to +70°C	217.61

Note: A calibration certificate is available on CVO Types see page 34.

**TT-I Immersion Sensors**


Part code	Description	\$
<b>Passive Output</b>		
TT-I-A	10K3A1, Trend, Cylon, Distech	34.50
TT-I-B	10K4A1, Andover, Delta Controls	34.50
TT-I-C	20K6A1, Honeywell	37.77
TT-I-D	PT100A, Serck	41.09
TT-I-E	PT1000A, Cylon	41.09
TT-I-F	Ni1000A, Sauter	44.34
TT-I-G	Ni1000A/TCR (LAN1), Siemens	50.18
TT-I-H	SAT1, Satchwell	50.91
TT-I-L	TAC1, TAC	37.77
TT-I-M	2.2K3A1, Johnson Controls	34.50
TT-I-N	3K3A1, Alerton	34.50
TT-I-P	30K6A1, Drayton	37.77
TT-I-Q	50K6A1	37.77
TT-I-R	100K6A1, York >40°C	37.77
TT-I-S	SAT2, Satchwell	50.91
TT-I-T	SAT3, Satchwell	50.91
TT-I-W	SIE1, Siebe	37.77
TT-I-Y	STA2, Landis & Staefa	44.34
TT-I-Z	10K NTC, Carel	37.77
<b>Active Output</b>		
TT-I-CVO	<b>Selectable:</b> 4-20mA/0-10Vdc <b>Output ranges:</b> -10 to +40°C or -10 to +110°C – selectable	151.08
TT-I-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc (custom temp. scaling), Scaled to customer specification in the range of -30 to +70°C	181.45
<b>Suffixes (add to part code)</b>		
-65	65mm probe length	0.00
-100	100mm probe length	0.00
-250	250mm probe length	22.21

**Note:** A calibration certificate is available on CVO Types see page 34.

**TT-IH High Temperature Immersion Sensors**


Part code	Description	\$
<b>Passive Output (150mm Probe)</b>		
TT-IH-D	PT100A Sensor	214.67
TT-IH-E	PT1000A Sensor	224.89
<b>Active Output (150mm Probe)</b>		
TT-IH-CVO	4-20mA/0-10Vdc selectable output <b>Output ranges:</b> -10 to +40°C, -10 to +110°C, -10 to +160°C or 0 to 400°C – selectable	299.86
TT-IH-CVO-C	4-20mA/0-10Vdc selectable output (custom temp. scaling), Scaled to customer specification in the range of -10 to +400°C	318.13
<b>Suffix (add to part code)</b>		
-250	250mm probe length	75.56
<b>Accessory</b>		
TT-DFP	Duct flange plate	31.20

**Note:** A calibration certificate is available on CVO Types see page 34.



## TT-C Clamp-on Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-C-A	10K3A1, Trend, Cylon, Distech	38.96
TT-C-B	10K4A1, Andover, Delta Controls	38.96
TT-C-C	20K6A1, Honeywell	39.43
TT-C-D	PT100A, Serck	42.71
TT-C-E	PT1000A, Cylon	46.05
TT-C-F	Ni1000A, Sauter	45.98
TT-C-G	Ni1000A/TCR (LAN1), Siemens	45.98
TT-C-H	SAT1, Satchwell	52.53
TT-C-L	TAC1, TAC	39.43
TT-C-M	2.2K3A1, Johnson Controls	36.16
TT-C-N	3K3A1, Alerton	36.16
TT-C-P	30K6A1, Drayton	39.43
TT-C-Q	50K6A1	39.43
TT-C-R	100K6A1, York >40°C	39.43
TT-C-S	SAT2, Satchwell	52.53
TT-C-T	SAT3, Satchwell	52.53
TT-C-W	SIE1, Siebe	39.43
TT-C-Y	STA2, Landis & Staefa, Distech	45.98
TT-C-Z	10K NTC, Carel	39.43
<b>Active Output</b>		
TT-C-CVO	<b>Selectable:</b> 4-20mA/0-10Vdc <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	147.81
TT-C-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc (custom temp. scaling), Scaled to customer specification in the range of -30 to +70°C	178.18
<b>Suffix (add to part code)</b>		
-5M	5m cable length	5.58
<b>Accessory</b>		
BAND	Additional Metal Band	4.08

## TT-554 Remote Probe Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-554-A	10K3A1, Trend, Cylon, Distech	26.26
TT-554-B	10K4A1, Andover, Delta Controls	26.26
TT-554-C	20K6A1, Honeywell	29.54
TT-554-D	PT100A, Serck	32.86
TT-554-E	PT1000A, Cylon	32.86
TT-554-F	Ni1000A, Sauter	36.16
TT-554-G	Ni1000A/TCR (LAN1), Siemens	36.16
TT-554-L	TAC1, TAC	29.54
TT-554-M	2.2K3A1, Johnson Controls	26.26
TT-554-P	30K6A1, Drayton	29.54
TT-554-Z	10K NTC, Carel	29.54
<b>Active Output</b>		
TT-554-CVO	4-20mA/0-10Vdc selectable output * <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	154.21
TT-554-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc selectable output (custom temp. scaling) *, Scaled to customer specification in the range of -10 to +60°	173.27
<b>Suffix (add to part code)</b>		
-5M	5 meter cable length	5.77
-65	65mm probe length	0.00
-250	250mm probe length	21.47
-LSZH	Low Smoke Zero Halogen option	9.02
<b>Accessories</b>		
TT-DFP	Duct flange plate	31.20
TT-PO-521	Stainless steel immersion pocket	25.48

**Note:** Custom lengths available.

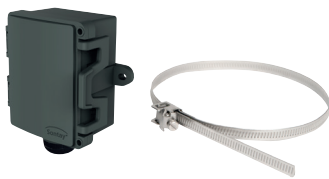
- \* These units are supplied with the transmitter in the plant housing.
- A calibration certificate is available on CVO Types see page 34.

**TT-x-U**
**Active Sensors 3-Wire 4-20mA/0-10Vdc**
**Duct**

**Outside**

**Outside with Radiation Shield**

**Immersion**

**Clamp-on**

**Flying Lead**


Part code	Description	\$
<b>Passive Output</b>		
TT-D-UN	Active Duct Sensor	146.79
TT-O-UN	Active Outside Air Sensor	159.84
TT-OR-UN	Active Outside Air Sensor with Rad. Shield	178.05
TT-I-UN	Active Immersion Sensor	153.51
TT-C-UN	Active Clamp-on Sensor	174.47
TT-555-UN	Active Flying Lead Sensor	152.60
<b>Suffixs (add to part code TT-D &amp; TT-I only)</b>		
-65	65mm Probe Length	0.00
-100	100mm Probe Length	0.00
-250	250mm Probe Length	22.21

## TT-555

## Flying Lead Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-555-A	10K3A1, Trend, Cylon, Distech	14.80
TT-555-B	10K4A1, Andover, Delta Controls	14.80
TT-555-C	20K6A1, Honeywell	18.03
TT-555-D	PT100A, Serck	21.33
TT-555-E	PT1000A, Cylon	21.33
TT-555-F	Ni1000A, Sauter	24.63
TT-555-G	Ni1000A/TCR (LAN1), Siemens	31.60
TT-555-H	SAT1, Satchwell	31.20
TT-555-K	STA1, Landis & Staefa	31.20
TT-555-L	TAC1, TAC	18.03
TT-555-M	2.2K3A1, Johnson Controls	14.80
TT-555-N	3K3A1, Alerton	14.80
TT-555-P	30K6A1, Drayton	18.03
TT-555-Q	50K6A1	18.03
TT-555-R	100K6A1, York >40°C	41.85
TT-555-S	SAT2, Satchwell	31.20
TT-555-T	SAT3, Satchwell	31.20
TT-555-W	SIE1, Siebe	18.03
TT-555-Y	STA2, Landis & Staefa	24.63
TT-555-Z	10K NTC, Carel	18.03
<b>Active Output</b>		
TT-555-CVO	<b>Selectable:</b> 4-20mA/0-10Vdc * <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	125.22
TT-555-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc (custom temp. scaling) *, Calibration to customer specification in the range of -10 to +60°C	148.64
<b>Suffixes (add to part code)</b>		
-5M	5m cable length	5.79
-LSZH	Low Smoke Zero Halogen option	9.02
-R	Cap potted (waterproof)	18.08

**Notes:**

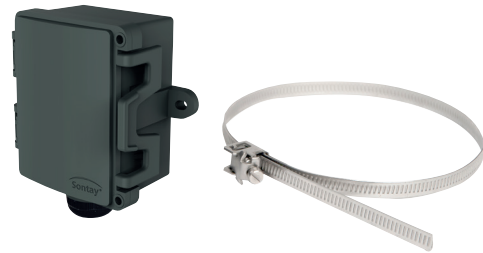
1. A calibration certificate is available on CVO Types see page 34.

2. Custom lengths available.

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

## TT-CD

## Direct Clamp-on Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-CD-A	10K3A1, Trend, Cylon, Distech	31.20
TT-CD-B	10K4A1, Andover, Delta Controls	31.20
TT-CD-C	20K6A1, Honeywell	34.50
TT-CD-D	PT100A, Serck	37.77
TT-CD-E	PT1000A, Cylon	37.77
TT-CD-F	Ni1000A, Sauter	41.09
TT-CD-G	Ni1000A/TCR (LAN1), Siemens	45.17
TT-CD-H	SAT1, Satchwell	47.62
TT-CD-L	TAC1, TAC	34.50
TT-CD-M	2.2K3A1, Johnson Controls	31.20
TT-CD-N	3K3A1, Alerton	31.20
TT-CD-P	30K6A1, Drayton	34.50
TT-CD-Q	50K6A1	34.50
TT-CD-R	100K6A1, York >40°C	34.50
TT-CD-S	SAT2, Satchwell	47.62
TT-CD-T	SAT3, Satchwell	47.62
TT-CD-W	SIE1, Siebe	34.50
TT-CD-Y	STA2, Landis & Staefa	41.09
TT-CD-Z	10K NTC, Carel	34.50
<b>Active Output</b>		
TT-CD-CVO	<b>Selectable:</b> 4-20mA/0-10Vdc <b>Output ranges:</b> -10 to +40°C or -10 to +110°C (selectable)	142.87
TT-CD-CVO-C	<b>Selectable:</b> 4-20mA/0-10Vdc (custom temp. scaling), Calibration to customer specification in the range of -30 to +70°C	173.27
<b>Accessory</b>		
BAND	Additional Metal Band	4.08

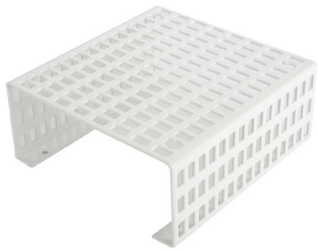
**Note:** 1. A calibration certificate is available on CVO Types see page 34.

**TT-EBB** External Black Bulb Sensors



Part code	Description	\$
<b>Passive Output</b>		
TT-EBB-A	10K3A1, Trend, Cylon, Distech	82.09
TT-EBB-B	10K4A1, Andover, Delta Controls	82.09
TT-EBB-C	20K6A1, Honeywell	85.43
TT-EBB-D	PT100A, Serck	88.68
TT-EBB-E	PT1000A, Cylon	88.68
TT-EBB-F	Ni1000A, Sauter	91.96
TT-EBB-G	Ni1000A/TCR (LAN1), Siemens	91.96
TT-EBB-H	SAT1, Satchwell	98.55
TT-EBB-K	STA1, Landis & Staefa	98.55
TT-EBB-L	TAC1, TAC	85.43
TT-EBB-M	2.2K3A1, Johnson Controls	82.09
TT-EBB-N	3K3A1, Alerton	82.09
TT-EBB-P	30K6A1, Drayton	85.43
TT-EBB-Q	50K6A1, Ambiflex	85.43
TT-EBB-S	SAT2, Satchwell	98.55
TT-EBB-T	SAT3, Satchwell	98.55
TT-EBB-W	SIE1, Siebe	98.55
TT-EBB-Y	STA2, Landis & Staefa	91.96
TT-EBB-Z	10K NTC, Carel	82.09

**TT-GD** Space Sensor Guard



Part code	Description	\$
TT-GD	Space Sensor Guard	96.87

**TT-CAL** Calibration



Part code	Description	\$
TT-CAL	3-Point calibration at 15, 25 & 35°C	246.34
TT-CAL-ADP	Additional calibration point, select between 0 & 70°C	82.09

**TT-S** Space Sensors



Setpoint + LCD Display

Part code	Description	\$
<b>Passive Output</b>		
TT-S-A	10K3A1, Trend, Cylon, Distech	17.20
TT-S-B	10K4A1, Andover, Delta Controls	17.20
TT-S-C	20K6A1, Honeywell	20.55
TT-S-D	PT100A, Serck	24.63
TT-S-E	PT1000A, Cylon	24.63
TT-S-F	Ni1000A, Sauter	28.75
TT-S-G	Ni1000A/TCR (LAN1), Siemens	30.15
TT-S-H	SAT1, Satchwell	36.16
TT-S-K	STA1, Landis & Staefa	36.16
TT-S-L	TAC1, TAC	21.33
TT-S-M	2.2K3A1, Johnson Controls	18.03
TT-S-N	3K3A1, Alerton	18.03
TT-S-P	30K6A1, Drayton	21.33
TT-S-Q	50K6A1	21.33
TT-S-S	SAT2, Satchwell	36.16
TT-S-T	SAT3, Satchwell	36.16
TT-S-W	SIE1, Siebe	21.33
TT-S-Y	STA2, Landis & Staefa	28.75
TT-S-Z	10K NTC, Carel	21.33

**Active Output**

TT-S-ACT	Selectable: 4-20mA/0-10Vdc, output range 0 to 40°C	156.87
TT-S-ACT-TR	Selectable: 4-20mA/0-10Vdc, custom temp. scaling between -20 to +50°C	196.40

**Interface Options \***

-SP	2-wire, 11-1kΩ/0-10Ω setpoint	32.20
-MS	Momentary switch	39.43
-LCD *	Integral display	133.98
-LEDG **	24V Green LED	24.65
-BLK ***	Black housing	11.88

**Accessories**

DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

**Note:**  
 A calibration certificate is available on -ACT Types see page 34.  
 \* Interface options are not applicable to 'Volume Price Breaks'.  
 \*\* Only available on -ACT types  
 \*\*\* Not available on -ACT types

**TT-BB**

**Black Bulb Sensors**



Part code	Description	\$
<b>Passive Output</b>		
TT-BB-A	10K3A1, Trend, Cylon, Distech	50.87
TT-BB-B	10K4A1, Andover, Delta Controls	50.87
TT-BB-C	20K6A1, Honeywell	50.87
TT-BB-D	PT100A, Serck	54.31
TT-BB-E	PT1000A, Cylon	54.31
TT-BB-F	Ni1000A, Sauter	57.75
TT-BB-G	Ni1000A/TCR (LAN1), Siemens	60.67
TT-BB-H	SAT1, Satchwell	64.67
TT-BB-K	STA1, Landis & Staefa	64.67
TT-BB-L	TAC1, TAC	50.87
TT-BB-M	2.2K3A1, Johnson Controls	67.93
TT-BB-N	3K3A1, Alerton	47.43
TT-BB-P	30K6A1, Drayton	50.87
TT-BB-Q	50K6A1	50.87
TT-BB-S	SAT2, Satchwell	64.67
TT-BB-T	SAT3, Satchwell	64.67
TT-BB-W	SIE1, Siebe	50.87
TT-BB-Y	STA2, Landis & Staefa	57.75
TT-BB-Z	10K NTC, Carel	50.87
<b>Interface Options</b>		
-SP	2-wire, 11-1kΩ/0-10Ω setpoint	32.20
-MS	Momentary switch	39.43
-LEDG	24V Green LED	24.65
-BLK *	Black housing	11.88
<b>Accessory</b>		
DECOR	Decorators trim plate	30.34
GASKET	Insulating gasket (pack of 10)	45.98

Note: A Sensor Guard (TT-GD) is available – page 34.  
 \* Plain front, no user interface available (SP/MS/LEDG).

**TT-PO**

**Immersion Sensor Pockets**



Part code	Description	\$
<b>65mm Pockets</b>		
TT-PO-521-65	Stainless Steel Immersion Pocket	25.48
<b>100mm Pockets</b>		
TT-PO-521-100	Stainless Steel Immersion Pocket	25.48
<b>150mm Pockets</b>		
TT-PO-521	Stainless Steel Immersion Pocket	25.48
TT-PO-HP	High Performance Stainless Steel Immersion Pocket	56.63
<b>250mm Pockets</b>		
TT-PO-521-250	Stainless Steel Immersion Pocket	49.94
TT-PO-HP-250	High Performance Stainless Steel Immersion Pocket	102.68

**UI-500**

**Interface Options**



Part code	Description	\$
UI-500	Custom Made	POA

**UI-AA**

**Alarm Annunciators**



Part code	Description	\$
UI-AA-1-F	1-channel Interface Panel	199.22

# Valves & Actuators

## VA Damper Actuators

5Nm Types    8Nm & 15Nm Types    20Nm & 30Nm & Fail Safe



Part code	Description	\$
<b>5Nm (44 in/lb) Actuators</b>		
VA-05A-24	24V On/off, raise/lower	142.97
VA-05A-24S	24V On/off, raise/lower with auxiliary switches	171.68
VA-05A-230	230V On/off, raise/lower	148.73
VA-05A-230S	230V On/off, raise/lower with auxiliary switches	190.80
VA-05M-24	24V Modulating	213.38
<b>8Nm (70 in/lb) Actuators</b>		
VA-08A-24	24V On/off, raise/lower	186.05
VA-08A-24S	24V On/off, raise/lower with auxiliary switch	226.27
VA-08A-230	230V On/off, raise/lower	193.81
VA-08A-230S	230V On/off, raise/lower with auxiliary switch	233.48
<b>10Nm Actuators</b>		
VA-10M-24	24V Modulating	253.58
VA-10M-24S	24V Modulating with auxiliary switch	301.00
<b>15Nm (132 in/lb) Actuators</b>		
VA-15A-24	24V On/off, raise/lower	205.46
VA-15A-24S	24V On/off, raise/lower with auxiliary switch	259.34
VA-15A-230	230V On/off, raise/lower	210.49
VA-15A-230S	230V On/off, raise/lower with auxiliary switch	233.48
VA-15M-24	24V Modulating	297.40
VA-15M-24S	24V Modulating with auxiliary switch	344.82
<b>20Nm (177 in/lb) Actuators</b>		
VA-20A-24S	24V On/off, raise/lower with auxiliary switches	321.81
VA-20A-230S	230V On/off, raise/lower with auxiliary switches	350.59
VA-20M-24S	24V Modulating with auxiliary switches	468.38
<b>30Nm (265 in/lb) Actuators</b>		
VA-30A-24	24V On/off, raise/lower	379.32
VA-30A-24S	24V On/off, raise/lower with auxiliary switches	429.85
VA-30A-230S	230V On/off, raise/lower with auxiliary switches	433.93
VA-30M-24S	24V Modulating with auxiliary switches	551.68
<b>Failsafe Actuators (20Nm / 177 in/lb)</b>		
VA-FA-24-N	24V On/off	516.45
VA-FA-24S-N	24V On/off with auxiliary switches	574.96
VA-FA-230-N	230V On/off	598.11
VA-FA-230S-N	230V On/off with auxiliary switches	654.79
VA-FM-24-N	24V Modulating	675.72
VA-FM-24S-N	24V Modulating with auxiliary switches	734.58

## VR-F 3-port Flanged Iron Rotary Shoe Valves



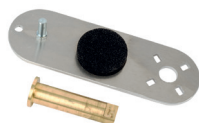
Actuator Selection				
Valve Body	24V R/L On/Off	230V R/L On/Off	24V Mod.	Linkage
VR-F-P3-F50	VA-05A-24x	VA-05A-230x	VA-05M-24	VR-LKN-2
Others	VA-15A-24x	VA-15A-230x	VA-15M-24x	VR-LKN-2

Part code	Description	\$
<b>3-port, Flanged Valves</b>		
VR-F-P3-F50-K60	50mm, 60 Kvs Valve	611.85
VR-F-P3-F65-K90	65mm, 90 Kvs	732.71
VR-F-P3-F80-K150	80mm, 150 Kvs	896.58
VR-F-P3-F100-K225	100mm, 225 Kvs	1211.91
VR-F-P3-F125-K280	125mm, 280 Kvs	1635.57
VR-F-P3-F150-K400	150mm, 400 Kvs	2177.48
<b>Linkage Kits</b>		
VR-LKN-2	For VA Actuators from 5 to 15Nm	55.85



**VR-G 3-port Screwed Brass Rotary Shoe Valves**

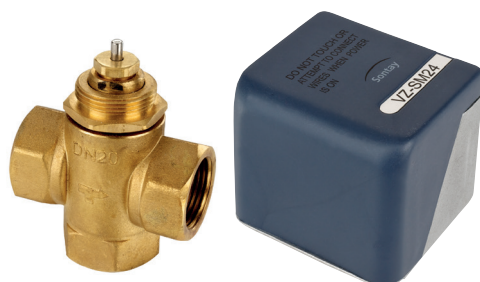

VR-G-LKN-1


**Actuator Selection**

Valve Body	24V R/L On/Off	230V R/L On/Off	24V Mod.	Linkage
All VR-G	VA-05A-24	VA-05A-230x	VA-05M-24	VR-G-LKN-1

Part code	Description		\$
<b>3-port, Screwed Valves</b>			
VR-G-01	½" BSP, 0.4 Kvs	Valve	192.96
VR-G-02	½" BSP, 0.63 Kvs	"	192.96
VR-G-03	½" BSP, 1.00 Kvs	"	192.96
VR-G-04	½" BSP, 1.63 Kvs	"	192.96
VR-G-05	½" BSP, 2.5 Kvs	"	165.06
VR-G-06	½" BSP, 4.0 Kvs	"	192.96
VR-G-07	¾" BSP, 2.5 Kvs	"	180.62
VR-G-08	¾" BSP, 4.0 Kvs	"	155.19
VR-G-09	¾" BSP, 6.3 Kvs	"	155.19
VR-G-10	1" BSP, 6.3 Kvs	Valve	197.04
VR-G-11	1" BSP, 10 Kvs	"	168.35
VR-G-12	1¼" BSP, 16 Kvs	"	267.64
VR-G-13	1½" BSP, 25 Kvs	"	320.24
VR-G-14	2" BSP, 40 Kvs	"	384.28
<b>Linkage Kit</b>			
VR-G-LKN-1	For VA 5Nm actuators		88.68

Note: Please refer to page 33 for VA actuators

**VZ Zone Valves and Actuators**


Part code	Description	\$
<b>2-port Valves</b>		
VZ-2N-15	½" BSP Zone Valve	47.92
VZ-2N-20	¾" BSP Zone Valve	67.05
VZ-2N-25	1" BSP Zone Valve	87.78
<b>3-port Valves</b>		
VZ-3-15	½" BSP Zone Valve	55.85
VZ-3-20	¾" BSP Zone Valve	78.82
VZ-3-25	1" BSP Zone Valve	105.10
<b>Actuators</b>		
VZ-SM24	24Vac Actuator with auxiliary switch	60.76
VZ-SM230	230Vac Actuator with auxiliary switch	60.76

# Water Detection & Emergency Products

**EP-SW Emergency Stop**

EP-KL

EP-SW-11



Part code	Description	\$
EP-KL	Stop Button – Key lock	68.97
EP-SW-11	Stop Button – Twist knob	57.44

**EP-SW-72 Fusible Thermal Link**

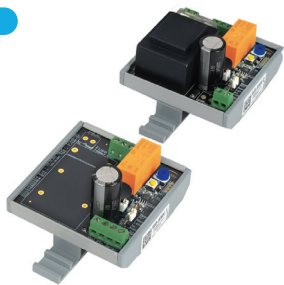

Part code	Description	\$
EP-SW-72	Electro-thermal Link	25.48
EP-SW-72-F	Electro-thermal Link – spare fuse	6.57

**EP-FS Fireman's Switches**


Part code	Description	\$
EP-FS-1	Fireman's Switch – Red 2-position	87.05
EP-FS-2	Fireman's Switch – Red 3-position	114.95

**WD** Water Leak Detection

**WD-AMX**



**WD-CS**



**WD-PS**



**WD-RS**



Part code	Description	\$
<b>Modules</b>		
WD-AMX-1	24Vac/dc Controller with buzzer	159.24
WD-AMX-2	230Vac Controller with buzzer	192.10
<b>Sensors</b>		
WD-CS-2M	Water Cable Sensor, 2m cable, 3m leader	60.76
WD-CS-5M	Water Cable Sensor, 5m cable, 3m leader	86.22
WD-CS-10M	Water Cable Sensor, 10m cable, 3m leader	138.79
WD-CS-15M	Water Cable Sensor, 15m cable, 3m leader	191.32
WD-CS-20M	Water Cable Sensor, 20m cable, 3m leader	243.87
WD-CS-25M	Water Cable Sensor, 25m cable, 3m leader	298.87
WD-PS	Water Point Sensor, 2m	60.76
WD-RS	Rain Sensor with internal heater, 2m leader	156.87
WD-RS-5M	Rain Sensor with internal heater, 5m leader	175.73
<b>Accessory</b>		
WD-FC	Pack of 20 fixing clips for WD-CS	8.23

Note: Custom WD-CS lengths available.

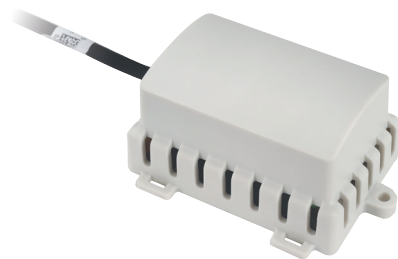
**WD-CPS** Condensation Detection and Prevention Range

**WD-CPS** Condensation Prevention Sensor



Part code	Description	\$
WD-CPS	Condensation Prevention Sensor - 2m lead	172.46
WD-CPS-5M	Condensation Prevention Sensor - 5m lead	205.27

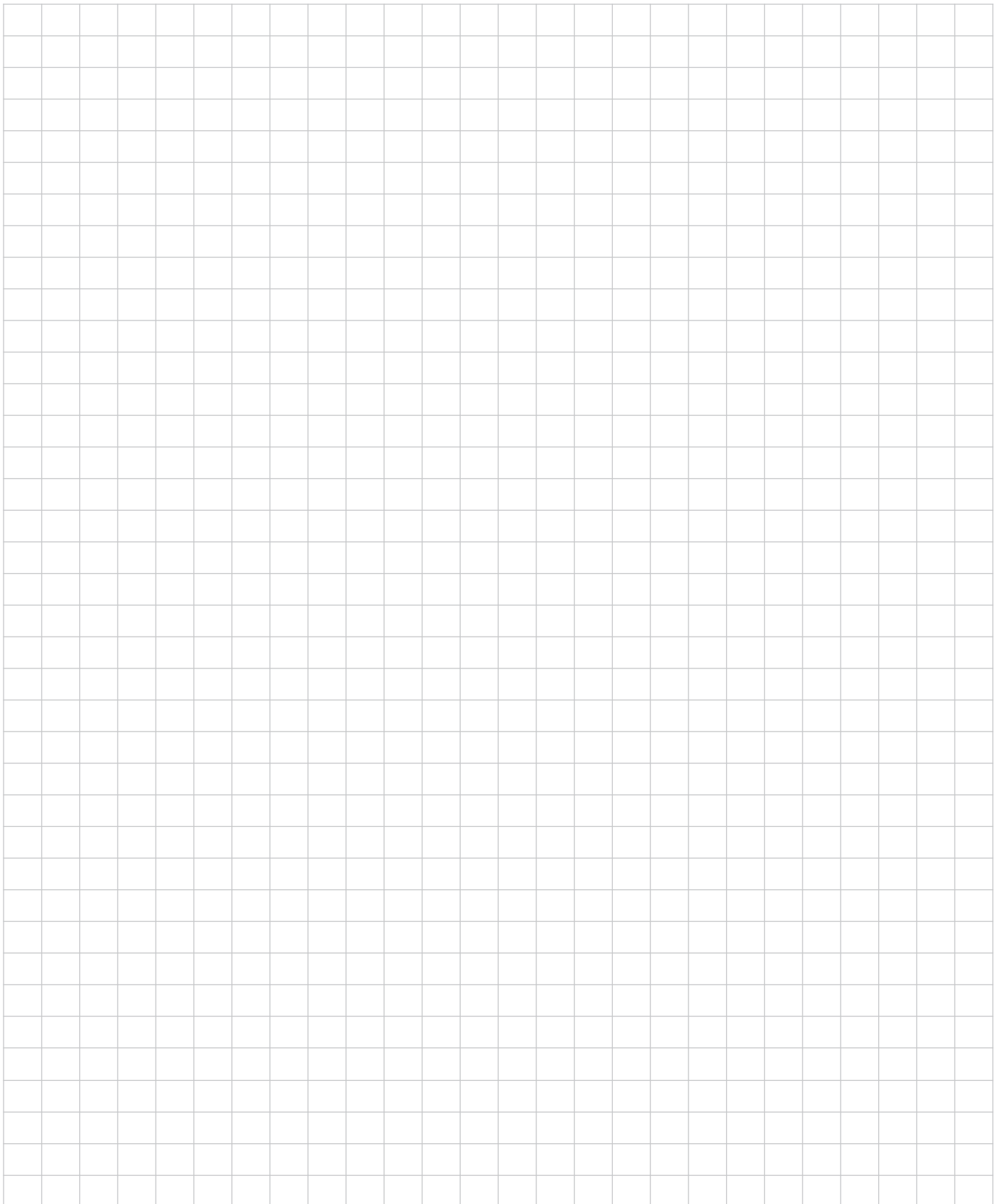
**WD-CPS-UN** Condensation Prevention Switch



Part code	Description	\$
WD-CPS-UN	Condensation Prevention Switch - 2m lead	143.35

# Notes

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