



PRODUCT GUIDE
EDITION 2018

www.status.co.uk

Welcome

to the latest Status Instruments Product Guide

Here at Status we've been designing, manufacturing and supplying top-quality process instrumentation for over 35 years - and in that time, we have acquired a following of loyal customers, who return to us year after year, and have come to appreciate our ongoing promise - that what goes into our products is **inspiration, dedication and application** – and what comes out is **performance, reliability and value**.

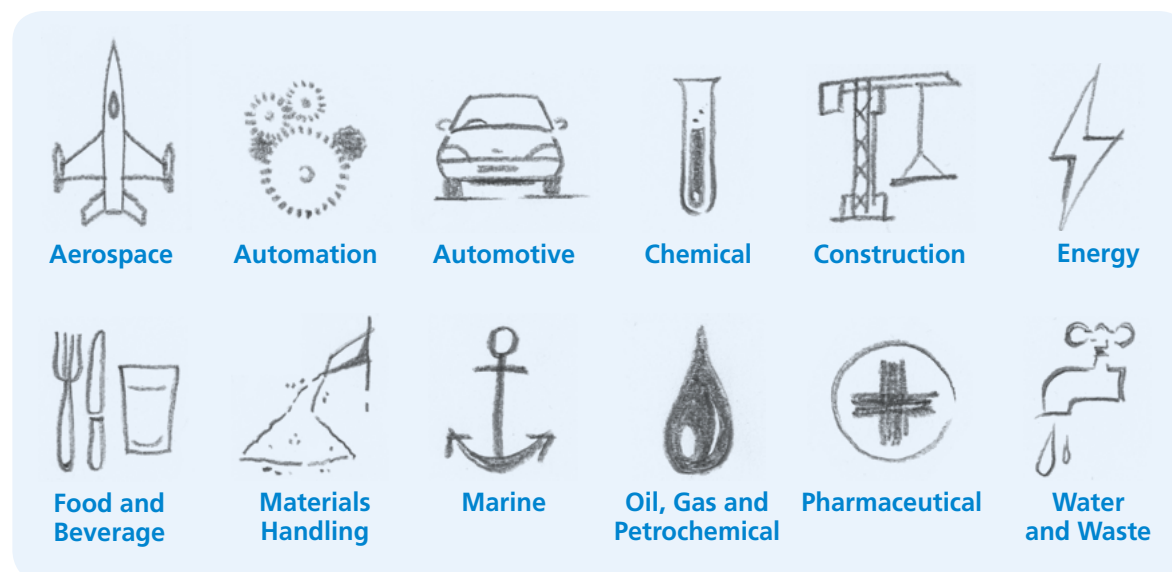
Quality counts

Quality has always been a priority for us at every level, and we operate a quality system approved to BS EN ISO9001.

Our products also comply with the following accreditations:



Where you'll find us working



Ordering

Please place your order directly with the distributor who sent you this Guide. If you acquired this Guide independently, please contact Status directly, and we will be able to help you.

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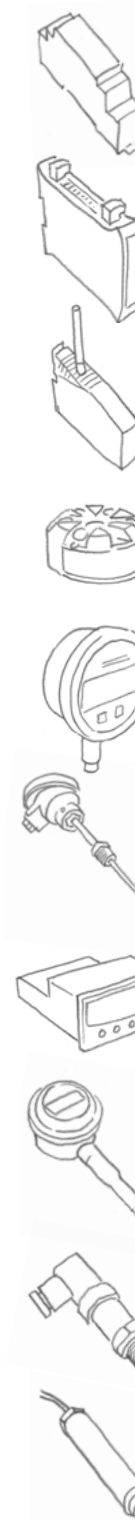
Contents

How to use this Guide

This Product Guide is divided into sections, as listed opposite.

Each section shows what the range has to offer, and the products are then listed individually with their relevant specification details beneath.

If you can't find exactly what you're looking for, or you require something specific that is not listed, please call us and we can discuss custom designs and tailored solutions.



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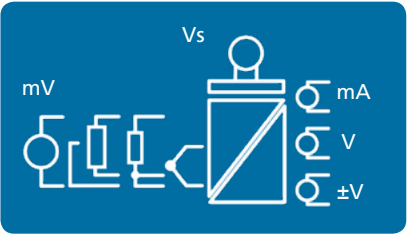


Signal conditioning



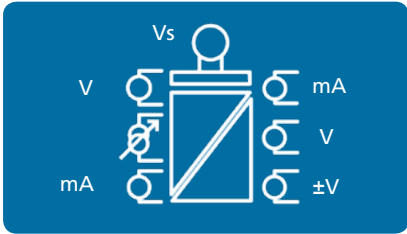
SEM 1600T

RTD, thermocouple, potentiometer, resistance or mV input. active / passive mA or voltage output.



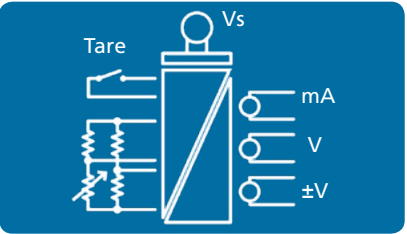
SEM 1600VI

mA / voltage conditioner with active / passive mA or voltage input and outputs.



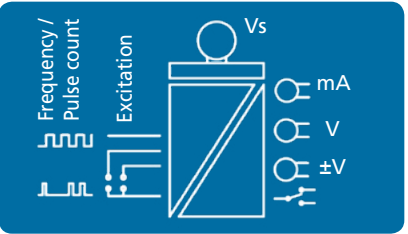
SEM 1600B

Load cell input signal conditioner with active / passive mA or voltage output.



SEM 1600F

Dual inputs, frequency and pulse counter. Active / passive mA or voltage and relay output.



INPUT	Pt100	Yes	Yes	(10 to 10,500) Ω	1 kΩ to 100 kΩ auto sense	K, J, N, E, T, R, S, L, U, B, C(W5), D(W3), G(W)	(-100 to +200) mV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	RTD other types	Yes													
	Resistance														
	Potentiometer														
	Thermocouple														
	Voltage														
	Current														
	Frequency														
OUTPUT	Pulse counter														
	Load cell														
	See datasheet for full details and specific output combinations														
		mA - active / passive													
		Voltage													
		Bi-polar voltage													
GENERAL	Isolation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Output zero/span alignment to input	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	User offset	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	User linearisation	Yes - resistance / potentiometer / mV	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Remote reset	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC
	Loop power supply	Yes - output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Sensor excitation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Configuration	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	Totalise	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Maths functions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Width	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm	17.5 mm

Signal conditioning



SEM 1630

RTD, thermocouple, passive mA, mV input, 2 change over relay outputs.



SEM 1633

RTD, potentiometer, resistance input with 2 change over relay outputs.



SEM 1636

Loop-powered input, with 2 change over relay outputs.

INPUT	Pt100
	RTD other types
	Resistance
	Potentiometer
	Thermocouple
	Voltage
	Current
	Frequency
	Pulse counter
	Load cell
OUTPUT	See datasheet for full details and specific output combinations
GENERAL	Isolation
	Output zero/span alignment to input
	User offset
	User linearisation
	Remote reset
	Ambient operating
	Power supply
	Loop power supply
	Sensor excitation
	Configuration
	Totalise
	Maths functions
	Width

	Yes
	N/A
	N/A
	N/A
	K, J, N, E, T, R, S
	(-10 to +75) mV
	(-10 to +25) mA Passive
	N/A
	N/A
	N/A
	2 x (250 VAC @ 1A) C/O relay
	Yes
	N/A
	N/A
	N/A
	N/A
	(-30 to +70) °C
	24 VDC
	N/A
	N/A
	PC
	N/A
	N/A
	17.5 mm

	Yes
	Yes
	(10 to 10,500) Ω
	10 Ω to 100 kΩ auto sense
	N/A
	N/A
	N/A
	N/A
	N/A
	2 x (250 VAC @ 1A) C/O relay
	Yes - relays
	N/A
	N/A
	Yes - resistance / potentiometer
	N/A
	(-30 to +70) °C
	Universal, (10 to 48) VDC and (10 to 32) VAC
	N/A
	N/A
	PC
	N/A
	N/A
	17.5 mm

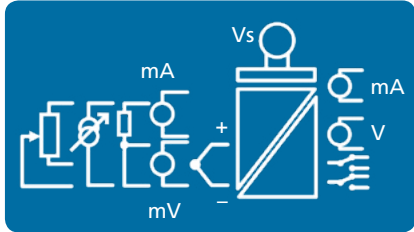
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	(4 to 20) mA Passive
	N/A
	N/A
	N/A
	2 x (250 VAC @ 1A) C/O relay
	Yes - relays
	N/A
	N/A
	Yes
	N/A
	(-30 to +70) °C
	(4 to 20) mA loop
	N/A
	N/A
	PC
	N/A
	Yes - flow formula
	17.5 mm

Signal conditioning



SEM 1700

Universal signal conditioner with current or voltage, and 2 change-over relay outputs.



Single channel

Yes
N/A
(20 to 400) Ω
> 1 k Ω
K, J, N, E, T, R, S, L, U, B, C, D, G
± 50 mV, ± 200 mV, ± 1 V, ± 10 V
± 30 mA (active or passive)
N/A
N/A
N/A

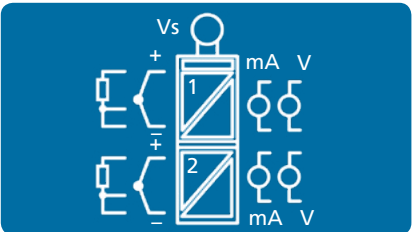
mA - active / passive
Voltage
2 x (250 VAC @ 1A) C/O Relay

Yes
Yes - push-button
N/A
N/A
N/A
(-30 to +70) $^{\circ}\text{C}$
Universal, (22 to 300) VDC and (24 to 250) VAC
Input and output
Yes - mA loop
PC - push-button
N/A
N/A
22 mm



SEM 1720

Dual-channel RTD, thermocouple, potentiometer, mV input with active / passive mA or voltage outputs.



Dual channel

Yes
Yes
N/A
1 k Ω to 100 k Ω auto sense
K, J, N, E, T, R, S, L, U, B, C, D, G
N/A
N/A
N/A
N/A

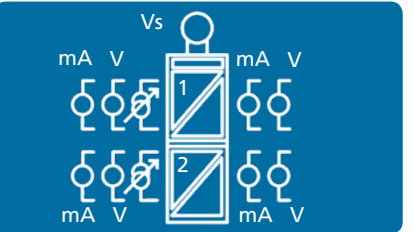
mA - active / passive
Voltage
Optional programmable maths outputs to include average, sum and splitter functions

Yes
N/A
Yes
Yes
N/A
(-30 to +70) $^{\circ}\text{C}$
Universal, (22 to 300) VDC and (24 to 250) VAC
Output, both channels
Yes - both channels
PC / DIP switch - pre-set ranges
N/A
Yes
22 mm



SEM 1750

Dual-channel mA / voltage conditioner with active / passive mA or voltage input and outputs.



Dual channel

N/A
N/A
N/A
N/A
N/A
± 50 VDC
± 50 mA (active / passive)
N/A
N/A
N/A

mA - active / passive
Voltage
Optional programmable maths outputs to include average, sum and splitter functions

Yes
N/A
N/A
Yes
N/A
(-30 to +70) $^{\circ}\text{C}$
Universal, (22 to 300) VDC and (24 to 250) VAC
Input and output, both channels
Yes - both channels
PC
N/A
Yes
22 mm

INPUT

TYPE

- Pt100
- RTD other types
- Resistance
- Potentiometer
- Thermocouple

- Voltage
- Current
- Frequency
- Pulse Counter
- Load Cell

OUTPUT

See datasheet for full details and specific output combinations

GENERAL

- Isolation
- Output zero/span alignment to input
- User offset
- User linearisation
- Remote reset
- Ambient operating
- Power supply

- Loop power supply
- Sensor excitation
- Configuration
- Totalise
- Maths functions
- Width

Signal conditioning



SEM 1000

(4 to 20) mA current loop isolator.



SEM 1010

Provides isolated power for a transmitter derived from a powered loop.



SEM 1015

Converts DC voltage to an isolated (4 to 20) mA signal.



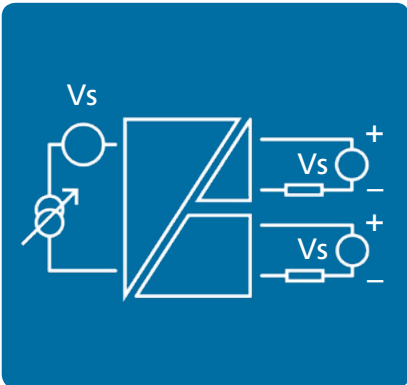
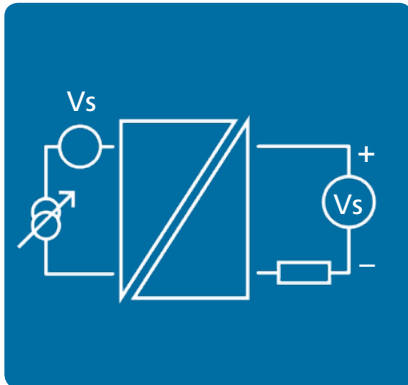
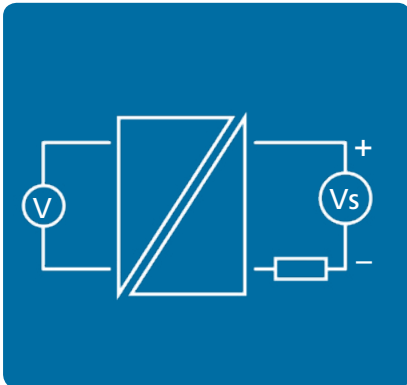
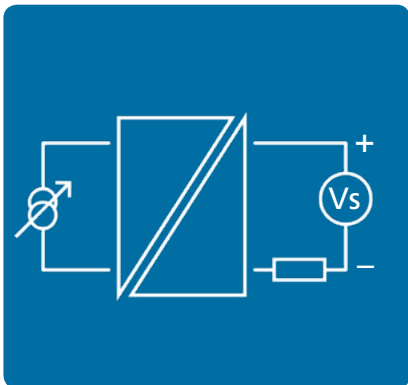
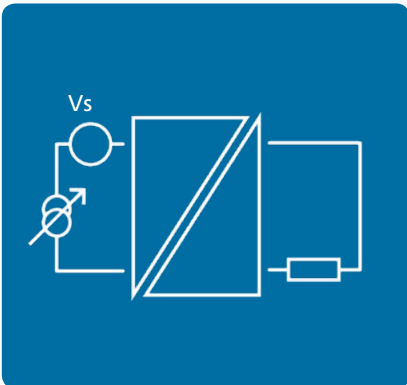
SEM 1020

Isolating current loop booster.



SEM 1200

Isolating current loop splitter.



INPUT

Type

(4 to 20) mA passive

2-wire (4 to 20) mA transmitter

DC voltage

(4 to 20) mA passive

(4 to 20) mA passive

Range

(4 to 20) mA

(4 to 20) mA

Any between (-10 to 100) VDC

(4 to 20) mA

(4 to 20) mA

OUTPUT

(4 to 20) mA active

(4 to 20) mA passive

(4 to 20) mA passive

(4 to 20) mA passive

2 x 2-wire (4 to 20) mA passive

GENERAL

Volt drop

Input 5.0 VDC typical

Output 5.0 VDC typical

Maximum loop supply

Input 35 VDC

Output 35 VDC

Isolation

500 VDC

500 VDC

Maximum load

Output 500 Ω

N/A

Power supply

Input loop

Output loop

Ambient operating temperature

(0 to +70) $^{\circ}\text{C}$

(0 to +70) $^{\circ}\text{C}$

Width

12.5 mm

21 mm

Rail-mounted transmitters



SEM
1605P

Pt100 transmitter;
PC configuration.



SEM
1605TC

Thermocouple transmitter;
PC configuration.



SEM
1615

RTD, thermocouple,
potentiometer, resistance,
mV transmitter;
PC configuration.



SEM
315 MKII

HART 5,6,7 compatible RTD,
thermocouple, potentiometer,
resistance, mV transmitter;
PC configuration.



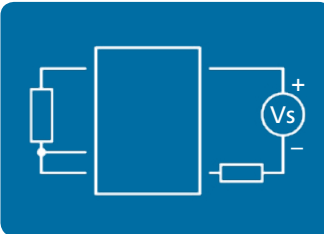
SEM
1801/2RX

RTD, potentiometer, resistance
transmitter; PC configuration.
IS-approved.

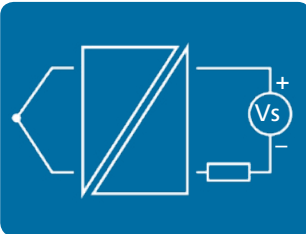


SEM
1801/2TCX

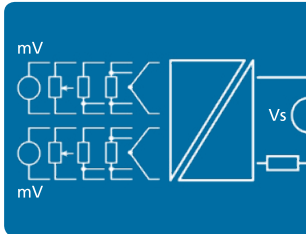
Thermocouple transmitter;
PC configuration. IS-approved.



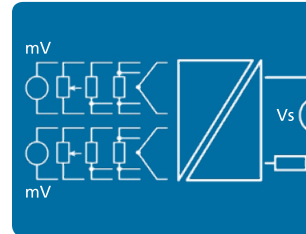
Single channel



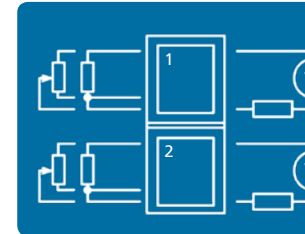
Single channel



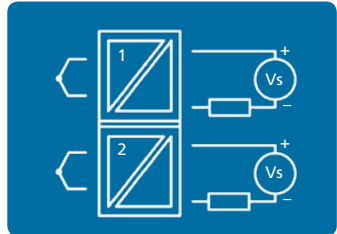
Dual input



Dual input



Single or dual channel



Single or dual channel

INPUT	TYPE						
	Pt100	Yes - 2, 3 wire	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Other RTD sensors	Yes	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Resistance	N/A	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω	N/A	N/A
	Potentiometer	N/A	N/A	1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ auto sense	Yes	N/A
OUTPUT	Thermocouple type	N/A	K, J, N, E, T, R, S, L, U, B, C, D, G	K, J, N, E, T, R, S, L, U, B, C, D, G custom	K, J, N, E, T, R, S, L, U, B, C, D, G custom	N/A	K, J, N, E, T, R, S, L, U, B, C, D, G
	Voltage	N/A	N/A	(-1000 to +1000) mV	(-1000 to +1000) mV	N/A	N/A
	Current	N/A	N/A	N/A	N/A	N/A	N/A
		(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA HART	(4 to 20) mA	(4 to 20) mA
GENERAL	Isolation	N/A	Yes	Yes	Yes	N/A	N/A
	Custom linearisation	N/A	N/A	Yes	Yes	Yes - resistance / potentiometer	Yes
	Output zero/span alignment to input	Yes	Yes	Yes	Yes	Yes	Yes
	User offset	Yes	Yes	Yes	Yes	Yes	Yes
	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
	Configuration	PC	PC	PC	PC / HART configurator	PC	PC
APPROVALS	Width	17.5 mm	17.5 mm	17.5 mm	17.5 mm	22 mm	22 mm
	ATEX	N/A	N/A	N/A	N/A	Yes	Yes
	IEC Ex	N/A	N/A	N/A	N/A	Yes	Yes
	EMC	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

Wireless transmitters



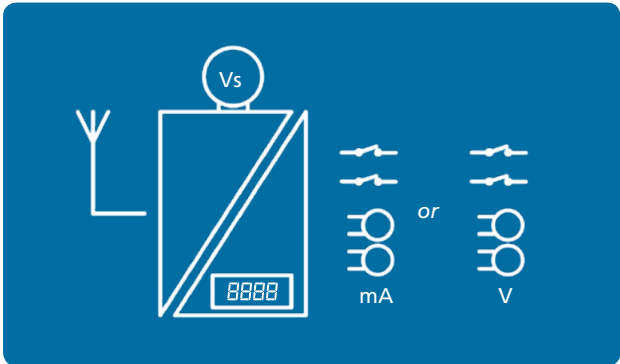
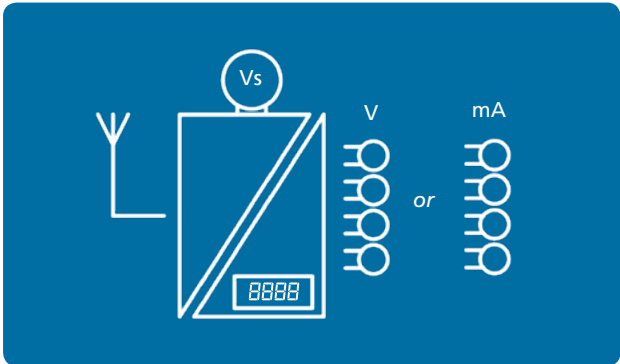
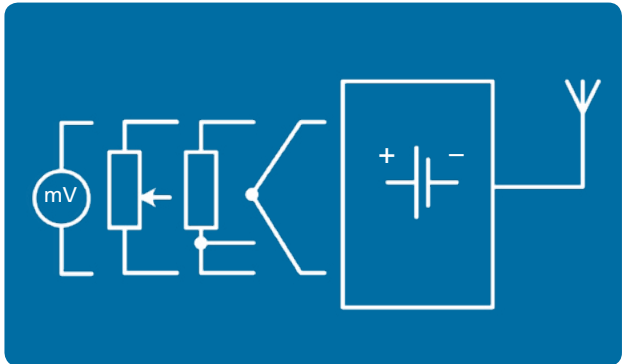
Universal head-mounted wireless transmitter



Wireless receiver for up to 16 x WTX700



Wireless receiver for up to 16 x WTX700



TYPE

Head mount in SCH4 or SCH11

Pt100
RTD options
Potentiometer
Thermocouple
Voltage
Custom linearisation
User offset
Measurement data on ISM band 868.4MHz

Yes
Yes
Up to 10 kΩ autosense
J, K, T, L, U, E, N, S, R, B, C, D
(0 to 50) mV
Yes - set on receiver
Yes - set on receiver
Yes - transmit

INPUT

Measurement data on ISM band 868.4 MHz
Communication

Measurement data on ISM band 868.4 MHz
N/A

OUTPUT

Transmit / receive range
Transmitter / receiver links
Ambient operating
Power supply
Configuration with programming module
Width

300 m line of sight
Links to any number of receivers
(-30 to +70) °C
Battery 3.6V lithium
Configuration kit
(see data sheet)

GENERAL

DIN rail

From radio signal
From radio signal
From radio signal
From radio signal
From radio signal
From radio signal
Yes - potentiometer / mV range
Yes - receive

4 x current - active / passive or voltage
RS485 Modbus for up to 16 x WTX700

300 m line of sight
Links up to 16 x WTX700 transmitters
(-20 to +50) °C
(110 to 240) VAC or (20 to 30) VDC
PC / push-button
22.5 mm

DIN rail

From radio signal
From radio signal
From radio signal
From radio signal
From radio signal
From radio signal
Yes - potentiometer / mV range
Yes - receive

2 x current - active / passive or voltage
2 off (250 VAC @ 3A) C/O relay
RS485 Modbus for up to 16 x WTX700

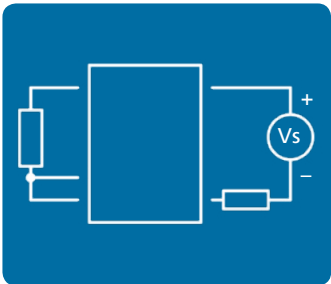
300 m line of sight
Links up to 16 x WTX700 transmitters
(-20 to +50) °C
(110 to 240) VAC or (20 to 30) VDC
PC / push-button
22.5 mm

In-head transmitters



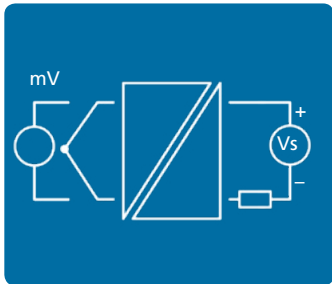
SEM 203P

Pt100 transmitter; push-button configuration.



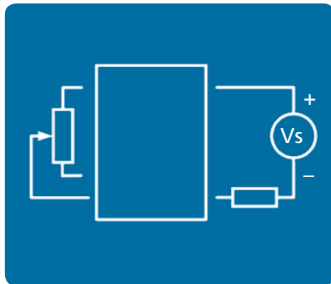
SEM 203TC

Thermocouple transmitter; push-button configuration.



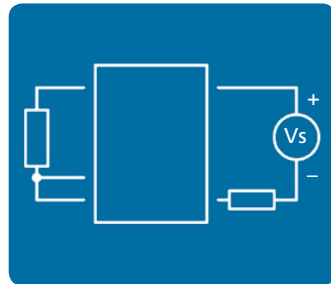
SEM 203W

Potentiometer transmitter; push-button configuration.



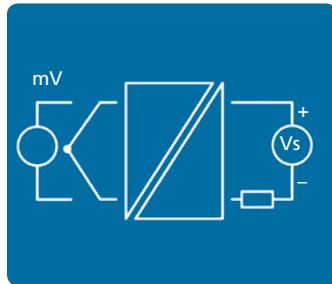
SEM 206P

Pt100 transmitter; PC configuration.



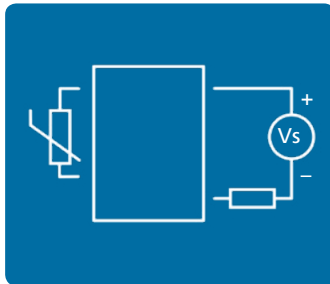
SEM 206TC

Thermocouple transmitter; PC configuration.



SEM 206TH

Thermistor transmitter; PC / push-button configuration.



TYPE

- Pt100
- Other RTD sensors
- Resistance
- Potentiometer
- Thermocouple type
- Voltage
- Current
- Thermistor

In-head

- Yes - 2, 3 wire
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A

In-head

- N/A
- N/A
- N/A
- N/A
- K, J, N, E, T, R, S
- (-10 to +70) mV
- N/A
- N/A

In-head

- N/A
- N/A
- N/A
- 1 kΩ to 100 kΩ
- N/A
- N/A
- N/A
- N/A

In-head

- Yes - 2, 3 wire
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A

In-head

- N/A
- N/A
- N/A
- N/A
- K, J, N, E, T, R, S
- (-10 to +70) mV
- N/A
- N/A

In-head

- N/A
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A
- Yes

OUTPUT

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

- Isolation
- Custom linearisation
- Output zero/span alignment to input
- User offset
- Display
- Ambient operating
- Power supply
- Configuration
- Width / diameter

- N/A
- N/A
- Yes - push-button
- N/A
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- Push-button
- 43 mm dia.

- Yes
- N/A
- Yes - push-button
- N/A
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- Push-button
- 43 mm dia.

- N/A
- N/A
- Yes - push-button
- N/A
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- Push-button
- 43 mm dia.

- N/A
- N/A
- N/A
- Yes
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- PC
- 43 mm dia.

- Yes
- N/A
- N/A
- Yes
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- PC
- 43 mm dia.

- N/A
- N/A
- Yes - push-button
- N/A
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- Push-button / PC
- 43 mm dia.

- ATEX
- IEC Ex
- Marine DNV standard
- EMC

- N/A
- N/A
- Yes
- EN BS 61326

- N/A
- N/A
- Yes
- EN BS 61326

- N/A
- N/A
- N/A
- EN BS 61326

- N/A
- N/A
- Yes
- EN BS 61326

- N/A
- N/A
- Yes
- EN BS 61326

- N/A
- N/A
- N/A
- EN BS 61326

In-head transmitters

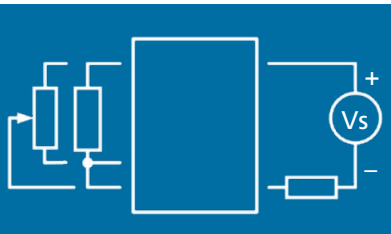
TTR
200



TTR
200X



RTD, potentiometer, resistance transmitter; PC configuration.
IS-approved version: TTR200X.



In-head

Yes - 2, 3 wire
Yes - 2, 3 wire
(10 to 10,500) Ω
1 kΩ to 100 kΩ auto sense
N/A
N/A
N/A
Yes

(4 to 20) mA

No
Resistance / potentiometer
Yes
Yes
N/A
(-40 to +85) °C
(10 to 30) VDC
PC
43 mm dia.

Yes
Yes
Yes
EN BS 61326

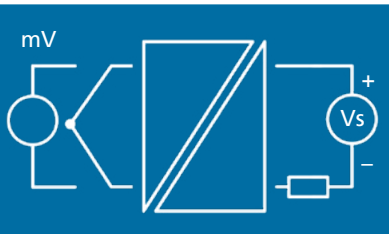
TTC
200



TTC
200X



Thermocouple, mV transmitter; PC configuration.
IS-approved version: TTC200X.



In-head

N/A
N/A
N/A
N/A
K, J, N, E, T, R, S, L, U, B, C, D, G custom
(-100 to +200) mV
N/A
N/A

(4 to 20) mA

Yes
Yes - mV
Yes
Yes
N/A
(-40 to +85) °C
(10 to 30) VDC
PC
43 mm dia.

Yes
Yes
Yes
EN BS 61326

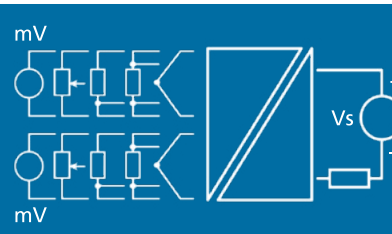
SEM
210 MKII



SEM
210X MKII



RTD, thermocouple, potentiometer, resistance, mV transmitter; PC configuration.
IS-approved version: SEM210X.



In-head, dual input

Yes - 2, 3, 4 wire
Yes - 2, 3, 4 wire
(10 to 10,500) Ω
1 kΩ to 100 kΩ auto sense
K, J, N, E, T, R, S, L, U, B, C, D, G custom
(-1000 to +1000) mV
N/A
N/A

(4 to 20) mA

Yes
Yes
Yes
Yes
N/A
(-40 to +85) °C
(10 to 30) VDC
PC
44 mm dia.

Yes
Yes
Yes
EN BS 61326

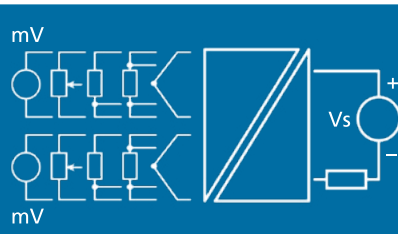
SEM
310 MKII



SEM
310X MKII



HART 5,6,7 compatible RTD, thermocouple, potentiometer, resistance, mV transmitter; PC configuration.
IS-approved version: SEM310X.



In-head, dual input

Yes - 2, 3, 4 wire
Yes - 2, 3, 4 wire
(10 to 10,500) Ω
1 kΩ to 100 kΩ auto sense
K, J, N, E, T, R, S, L, U, B, C, D, G custom
(-1000 to +1000) mV
N/A
N/A

(4 to 20) mA HART

Yes
Yes
Yes
Yes
N/A
(-40 to +85) °C
(10 to 30) VDC
PC and HART configurator
44 mm dia.

Yes
Yes
Yes
EN BS 61326

TYPE

Pt100
Other RTD sensors
Resistance
Potentiometer
Thermocouple type

Voltage
Current
Thermistor

INPUT

OUTPUT

GENERAL

Isolation
Custom linearisation
Output zero/span alignment to input
User offset
Display
Ambient operating
Power supply
Configuration
Width / diameter

APPROVALS

ATEX
IEC Ex
Marine DNV standard
EMC

Temperature transmitters

Other packages



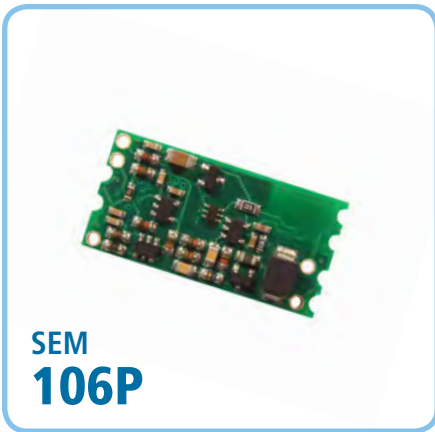
Head-mounted RTD, thermocouple transmitter with integrated LED display. PC configuration.



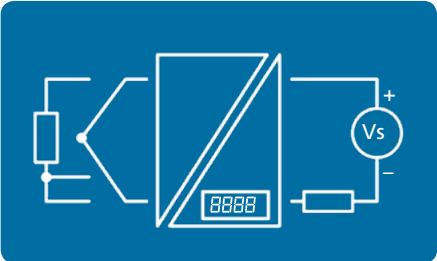
MA head-mounted RTD, potentiometer, resistance transmitter.



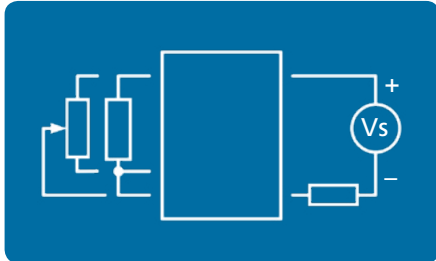
MA head-mounted RTD, potentiometer, resistance transmitter with voltage output.



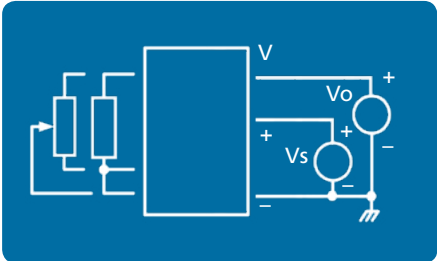
OEM transmitter - build into your own device.



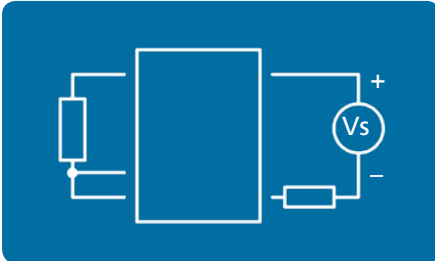
In-head (SCH4 or SCH15)



In-head



In-head



In-head

TYPE

- Pt100
- Other RTD sensors
- Resistance
- Potentiometer
- Thermocouple type

- Voltage
- Current
- Thermistor

- Yes - 2, 3 wire
- N/A
- N/A
- N/A
- K, J, N, E, T, R, S
- (-1000 to +1000) mV
- N/A
- N/A

- Yes - 2, 3 wire
- Yes - 2, 3 wire
- (10 to 10,500) Ω
- 1 k Ω to 100 k Ω auto sense
- N/A
- N/A
- N/A
- Yes

- Yes - 2, 3 wire
- Yes - 2, 3 wire
- (10 to 10,500) Ω
- 1 k Ω to 100 k Ω auto sense
- N/A
- N/A
- N/A
- Yes

- Yes - 2, 3 wire
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A

INPUT

OUTPUT

(4 to 20) mA

(4 to 20) mA

3-wire programmable voltage output

(4 to 20) mA

- Isolation
- Custom linearisation
- Output zero/span alignment to input
- User offset
- Display
- Ambient operating
- Power supply
- Configuration
- Dimensions

- Yes
- N/A
- N/A
- N/A
- 4-digit LED (9mm)
- (-20 to +70) $^{\circ}\text{C}$
- (15 to 30) VDC
- PC / push-button trim
- (see data sheet)

- N/A
- Yes -resistance / potentiometer
- Yes
- Yes
- N/A
- (-40 to +85) $^{\circ}\text{C}$
- (10 to 30) VDC
- PC
- (see data sheet)

- N/A
- Yes -resistance / potentiometer
- Yes
- Yes
- N/A
- (-40 to +85) $^{\circ}\text{C}$
- (10 to 30) VDC
- PC
- (see data sheet)

- N/A
- N/A
- N/A
- Yes
- N/A
- (-40 to +85) $^{\circ}\text{C}$
- (10 to 30) VDC
- PC
- 30 x 15 mm

GENERAL

- ATEX
- IEC Ex
- Marine DNV standard
- EMC

- N/A
- N/A
- N/A
- EN BS 61326

- N/A
- N/A
- N/A
- EN BS 61326

- N/A
- N/A
- N/A
- EN BS 61326

- N/A
- N/A
- N/A
- EN BS 61326

APPROVALS

Field mounted displays

The DM650 series has either the sensor included, or supplied separately.



DM 650TM

LCD battery-powered Pt100 and thermocouple thermometer, with relay and datalogging.



DM 650PM

LCD battery-powered pressure and media temperature indicator with relay and datalogging.



DM 650HM

LCD battery-powered humidity and temperature indicator, with relay and datalogging.



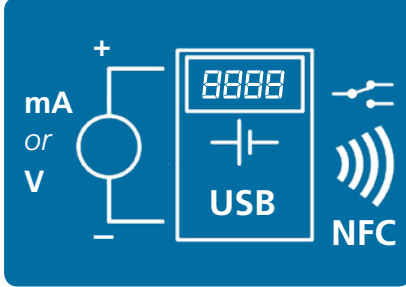
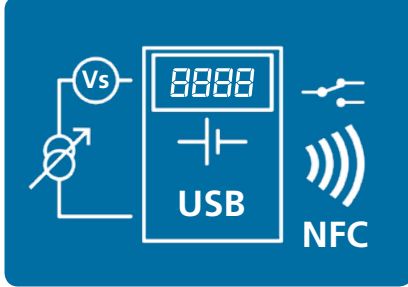
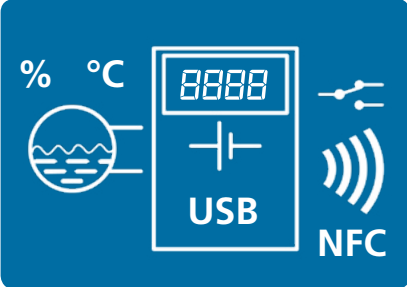
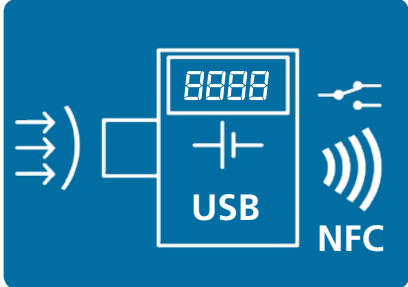
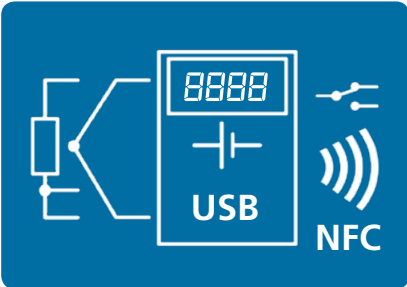
DM 650LP

(4 to 20) mA loop-powered LCD process indicator with relay and datalogging, and battery back-up.



DM 650VI

± 50 mA or ± 50 V, battery-powered LCD process indicator.



Mechanical		Sensor / surface mount		Sensor / surface mount		Sensor / surface mount		Sensor / surface mount	
INPUT	Pt100	Yes		N/A		N/A		N/A	
	Thermocouple	K, J, T, R, S, E, L, N, U, B, C, D, G		N/A		N/A		N/A	
	Pressure and media temperature	N/A		Yes - sensor included, 1/4" BSP thread (adaptors available)		N/A		N/A	
	Humidity and media temperature	N/A		N/A		Yes - sensor included		N/A	
	Current	N/A		N/A		N/A		(4 to 20) mA loop (passive)	
	Voltage	N/A		N/A		N/A		N/A	
OUTPUT	Linearisation/offset	Offset		Both		Both		Both	
	Display	6-digit LCD 7.9 mm		6-digit LCD 7.9 mm		6-digit LCD 7.9 mm		6-digit LCD 7.9 mm	
	Relay	Yes - 1 relay		Yes - 1 relay		Yes - 1 relay		Yes - 1 relay	
	Contactless	NFC system		NFC system		NFC system		NFC system	
	Custom messaging	Yes		Yes		Yes		Yes	
	Datalogging	Yes - 5000 points		Yes - 3600 points		Yes - 5000 points		Yes - 5000 points	
GENERAL	Max / min	Yes - via datalogging		Yes - via datalogging		Yes - via datalogging		Yes - via datalogging	
	Ambient operating	(-30 to +70) °C		(-30 to +70) °C		(-30 to +70) °C		(-30 to +70) °C	
	Power supply	Battery 3.6 V lithium		Battery 3.6 V lithium		Battery 3.6 V lithium		Battery 3.6 V lithium	
	Battery life	2 years typical		2 years typical		2 years typical		2 years typical	
	Enclosure	SCH4		SCH4		SCH4		SCH4	
	Environmental rating	IP67		IP67		IP67		IP67	
APPROVALS	Configuration	USB and NFC (some functions)		USB and NFC (some functions)		USB and NFC (some functions)		USB and NFC (some functions)	
	ATEX	No - see DM640X series, page 24		No		No		No	

Field mounted displays

ATEX versions and large displays have either the sensor included, or supplied separately.



DM 640XP and 640XTC



DM 700X



DM 660



DM 670TM



DM 670PM

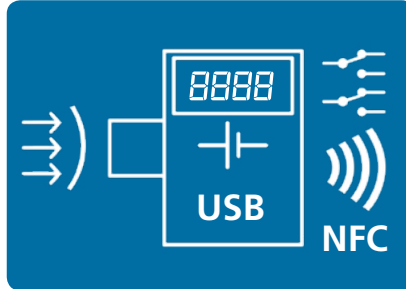
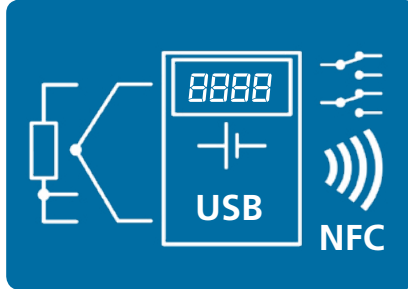
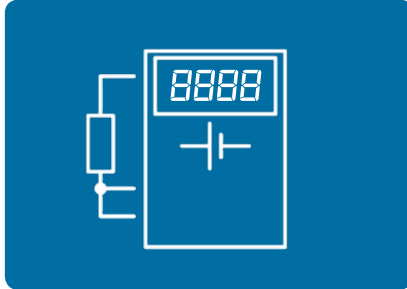
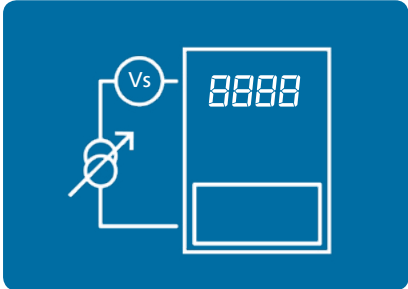
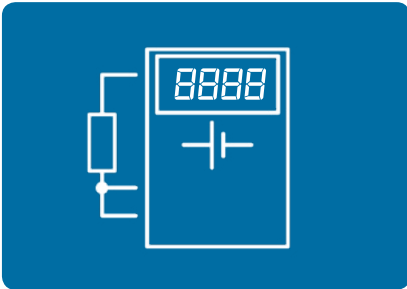
ATEX-approved LCD battery-powered Pt100 or thermocouple thermometer.

ATEX-approved (4 to 20) mA loop-powered LED process indicator.

Large-digit LCD battery-powered Pt100 thermometer.

Large-digit LCD battery-powered Pt100 and thermocouple thermometer, with two relays and datalogging.

Large-digit LCD battery-powered pressure and media temperature indicator, with two relays and datalogging.



Mechanical

INPUT

- Pt100
- Thermocouple
- Pressure and media temperature
- Humidity and media temperature
- Current
- Voltage
- Linearisation/offset

Sensor / surface mount

Yes
K, J, T, R, S, E, L, N
N/A
N/A
N/A
N/A
N/A
Offset

Sensor / surface mount

N/A
N/A
N/A
N/A
(4 to 20) mA loop (passive)
N/A
N/A

Sensor / surface / panel mount

Yes
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Sensor / surface / panel mount

Yes
K, J, T, R, S, E, L, N, U, B, C, D, G
N/A
N/A
N/A
N/A
Both

Sensor / surface / panel mount

N/A
N/A
Yes - sensor included, 1/4" BSP thread (adaptors available)
N/A
N/A
N/A
Both

OUTPUT

- Display
- Relay
- Contactless
- Custom messaging
- Datalogging
- Max / min

4-digit LCD 8.5 mm

N/A
N/A
N/A
N/A
N/A
N/A

4-digit LED 7 mm

N/A
N/A
N/A
N/A
N/A
N/A

4-digit LCD 20 mm

N/A
N/A
N/A
N/A
N/A
Yes

6-digit LCD 15.8 mm

Yes - 2 relays
NFC system
Yes
Yes - 5000 points
Yes, and relay condition

6-digit LCD 15.8 mm

Yes - 2 relays
NFC system
Yes
Yes - 3600 points
Yes, and relay option

GENERAL

- Ambient operating
- Power supply
- Battery life
- Enclosure
- Environmental rating
- Configuration

(-10 to +50) °C

Battery 3.6 V lithium
2 years typical
SCH4
IP67
Push-button

(-10 to +70) °C

(4 to 20) mA loop
N/A
SCH4
IP67
Push-button

(-10 to +50) °C

Battery 3.6 V lithium
2 years typical
Stainless steel 100mm diameter
IP65
N/A

(-30 to +70) °C

Battery 3.6 V lithium
2 years typical
Stainless steel 100mm diameter
IP65
USB

(-30 to +70) °C

Battery 3.6 V lithium
2 years typical
Stainless steel 100mm diameter
IP65
USB

APPROVALS

ATEX

Yes

Yes

N/A

N/A

N/A

Probe assemblies



(typical examples)

We pride ourselves on being able to supply probe assemblies for almost any specification.

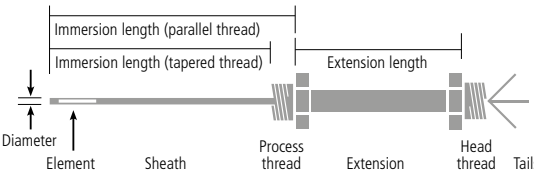
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

Simply follow the left-to-right progression shown at the top of the page to compile your requirement.

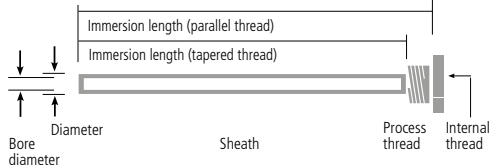
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

If you would like to know more, or discuss a specific requirement, please call our sales team.

Typical probe specification diagram



Typical thermowell specification diagram



Probes



STS
Style 1



STS
Style 2



STS
Style 3



STS
Style 4



STS
Style 5



STS
Style 6



STS
Style 7



STS
Style 8



STS
Style 9



STS
Style 10



STS
Style 11



STS
Style 12

(items shown not necessarily to scale)

Transmitters/ Displays

Many will suit; these are just some examples



SEM
210X

In-head range - see page 16



DM
650TM

Battery-powered range - see page 22



DM
670TM

Battery-powered range - see page 24



DM
700X

Loop-powered range - see page 24



DM
710

Loop-powered transmitter with display - see page 20

Connection blocks



Heads



SCH4

ABS plastic



SCH11

Aluminium



SCH15

Stainless steel



SCH50

Stainless steel / Aluminium EXD and Exia

We are certified to supply Exia and EXD probe assemblies

Compression glands



Thermowells



STW
Style 1



STW
Style 2



STW
Style 3



STW
Style 4



STW
Style 5



STW
Style 6

Panel meters



DM 720

Loop-powered panel meter.



DM 3410

Pt100 / Thermocouple 4-digit panel meter with output options.



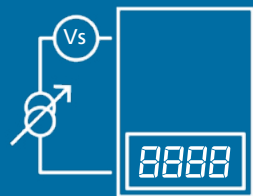
DM 3420

Current / voltage 4-digit panel meter with output options.

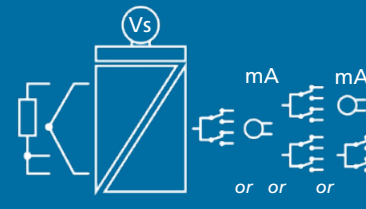


DM 3430

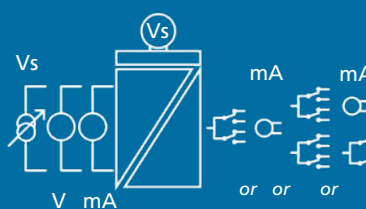
High-voltage / current true RMS 4-digit panel meter with output options.



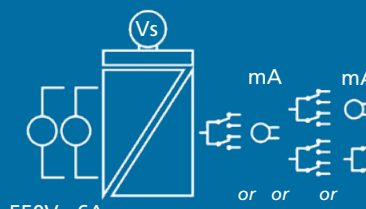
(48 x 24) mm panel mount



(96 x 48) mm panel mount



(96 x 48) mm panel mount



(96 x 48) mm panel mount

INPUT

Mechanical

- Pt100
- Thermocouple
- Current
- Voltage
- Frequency / pulse
- Remote digital inputs
- User linearisation

OUTPUT

See datasheet for full details and specific output combinations

GENERAL

- Isolation
- Display
- Ambient operating
- Power supply
- Loop power supply
- Sensor excitation
- Configuration
- Max / min display
- Comms
- TFML maths functions

- N/A
- N/A
- Yes (passive)
- N/A
- N/A
- N/A
- N/A

4-digit LED process display

- N/A
- 4-digit LED 10 mm
- (-10 to +60) °C
- (4 to 20) mA loop

- N/A
- N/A
- Push-button
- N/A
- N/A
- N/A

- Yes
- K, J, T, R, S, E, L, N. B
- N/A
- N/A
- N/A
- N/A
- N/A

- 2 x relay (250 VAC @ 5 A) POD
- Current (active or passive) POD
- 4-digit LED process display

- Yes
- 4-digit LED 14.2 mm
- (-30 to +60) °C
- (20 to 35) VDC or (90 to 253) VAC
- Output (option)
- N/A
- Push-button
- N/A
- N/A
- N/A

- N/A
- N/A
- Yes (active or passive)
- (0 to 1) (1 to 5) (0 to 10) VDC
- N/A
- N/A
- Yes

- 2 x relay (250 VAC @ 5 A) POD
- Current (active or passive) POD
- 4-digit LED process display

- Yes
- 4-digit LED 14.2 mm
- (-30 to +60) °C
- (20 to 35) VDC or (90 to 253) VAC
- Input, output (option)
- N/A
- Push-button
- Yes
- N/A
- N/A

- N/A
- N/A
- ±6A AC / DC
- ±550 V AC / DC
- N/A
- N/A
- N/A

- 2 x relay (250 VAC @ 5 A) POD
- Current (active or passive) POD
- 4-digit LED process display

- Yes
- 4-digit LED 14.2 mm
- (-30 to +60) °C
- (20 to 35) VDC or (90 to 253) VAC
- Output (option)
- N/A
- Push-button
- Yes
- N/A
- N/A

Humidity and temperature transmitters



Cost-effective single-channel duct-mounted humidity Transmitter.



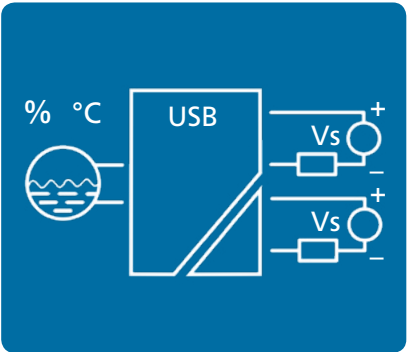
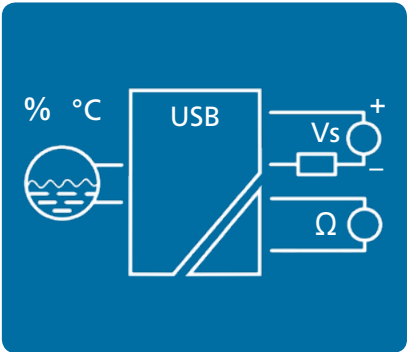
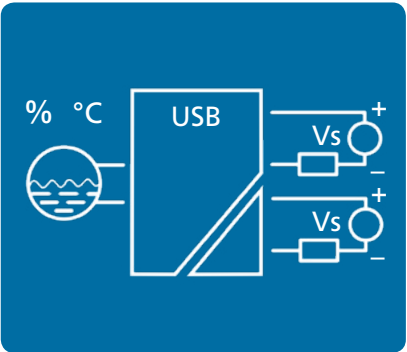
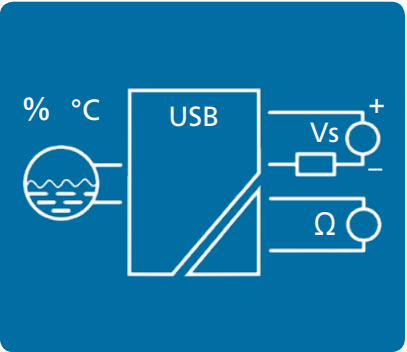
Cost-effective dual-channel duct-mounted humidity / temperature transmitter.



Cost-effective single-channel wall-mounted humidity transmitter.



Cost-effective dual-channel wall-mounted humidity / temperature transmitter.



INPUT	Temperature range	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C
	Humidity (RH)	(10 to 90) %	(10 to 90) %	(10 to 90) %	(10 to 90) %
BASE ACCURACY	Temperature	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C
	Humidity (RH)	±3% RH	±3% RH	±3% RH	±3% RH
OUTPUT	Output channels	1 x (4 to 20) mA	2 x (4 to 20) mA	1 x (4 to 20) mA	2 x (4 to 20) mA
	Output choices: Temperature	Programmable	Default	Programmable	Default
	Humidity	Default	Default	Default	Default
	Dewpoint	Programmable	Programmable	Programmable	Programmable
	ΔTd - difference between dewpoint temperature and temperature	Programmable	Programmable	Programmable	Programmable
GENERAL	Direct thermistor option	Yes	No	Yes	No
	Sensor length	120, 250 mm	120, 250 mm	120 mm	120 mm
	Configuration	PC	PC	PC	PC
	Power supply	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
	Ambient operating (electronics, not sensor)	(-20 to +70) °C	(-20 to +70) °C	(-20 to +70) °C	(-20 to +70) °C
	Encapsulated electronics	No	No	No	No

Humidity and temperature transmitters



Single-channel wall-mounted humidity transmitter.

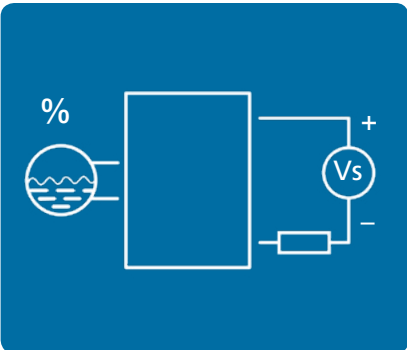
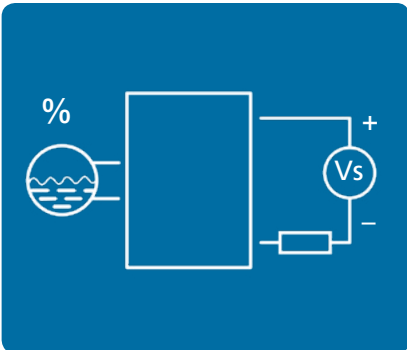
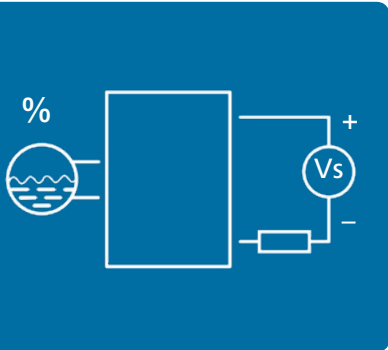


Single-channel duct-mounted humidity transmitter.



Single-channel remote mount humidity transmitter.

* Supply voltage (15 to 30) VDC when display fitted.



INPUT	Temperature range	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C
	Humidity (RH)	(10 to 90) %	(10 to 90) %	(10 to 90) %
BASE ACCURACY	Temperature	±0.5 °C	±0.5 °C	±0.5 °C
	Humidity (RH)	±2% RH	±2% RH	±2% RH
OUTPUT	Output channels	1 x (4 to 20) mA	1 x (4 to 20) mA	1 x (4 to 20) mA
	Output choices: Temperature	Programmable	Default	Programmable
	Humidity	Default	Default	Default
	Dewpoint	Programmable	Programmable	Programmable
	ΔTd - difference between dewpoint temperature and temperature	Programmable	Programmable	Programmable
GENERAL	Direct thermistor option	N/A	N/A	Yes
	Plug-in sensor	Yes	N/A	N/A
	Cable / sensor length	120 mm	120, 250, 500 mm	2m or 5m
	Display option	Yes	Yes	Yes
	Configuration	PC	PC	PC
	Power supply	(10 to 30) VDC *	(10 to 30) VDC *	(10 to 30) VDC *
	Ambient operating (electronics, not sensor)	(-30 to +85) °C	(-30 to +85) °C	(-30 to +85) °C
	Encapsulated electronics	Yes	Yes	Yes

Humidity and temperature transmitters



Dual-channel wall-mounted temperature / humidity transmitter.

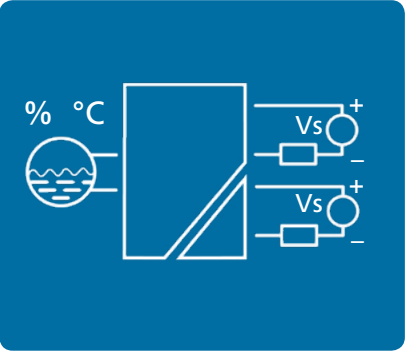
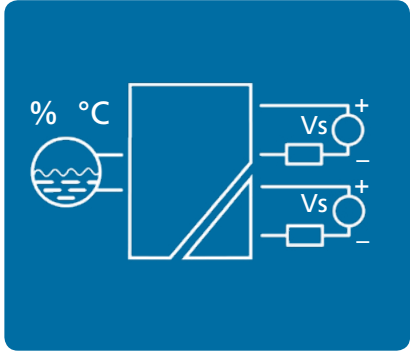
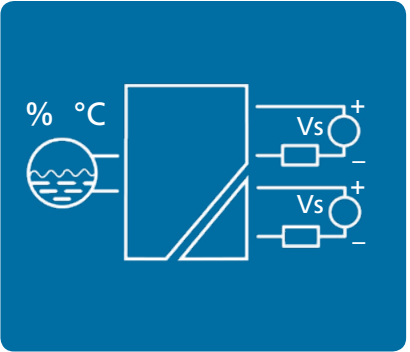


Dual-channel duct-mounted temperature / humidity transmitter.



Dual-channel remote mount temperature / humidity transmitter.

* Supply voltage (15 to 30) VDC when display fitted.



INPUT	Temperature range	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C
	Humidity (RH)	(10 to 90) %	(10 to 90) %	(10 to 90) %
BASE ACCURACY	Temperature	±0.5 °C	±0.5 °C	±0.5 °C
	Humidity (RH)	±2% RH	±2% RH	±2% RH
OUTPUT	Output channels	2 x (4 to 20) mA	2 x (4 to 20) mA	2 x (4 to 20) mA
	Output choices: Temperature	Default	Default	Default
	Humidity	Default	Default	Default
	Dewpoint	Programmable	Programmable	Programmable
	ΔTd - difference between dewpoint temperature and temperature	Programmable	Programmable	Programmable
GENERAL	Direct thermistor option	N/A	N/A	N/A
	Plug-in sensor	Yes	Yes	Yes
	Cable / sensor length	120 mm	120, 250, 500 mm	2m or 5m
	Display option	Yes	Yes	Yes
	Configuration	PC	PC	PC
	Power supply	(10 to 30) VDC *	(10 to 30) VDC *	(10 to 30) VDC *
	Ambient operating (electronics, not sensor)	(-30 to +85) °C	(-30 to +85) °C	(-30 to +85) °C
	Encapsulated electronics	Yes	Yes	Yes

Pressure transmitters



PTX
130/1 or 2

Cost-effective pressure transmitter.



PTX
130/G3 or G4

Cost-effective pressure transmitter.



PTX
19

High specification pressure transmitter with ATEX / IECEx version.



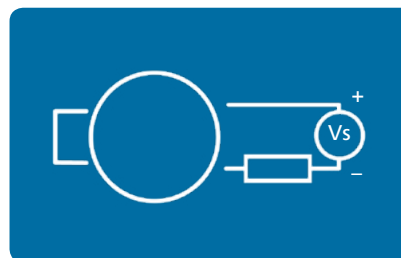
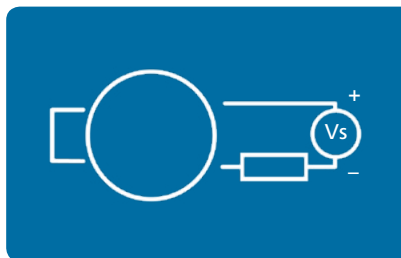
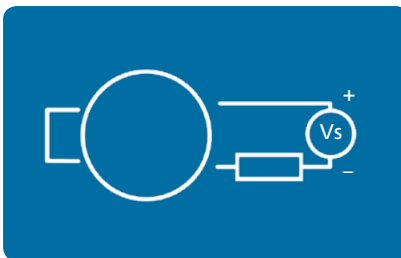
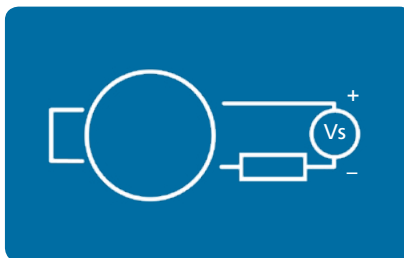
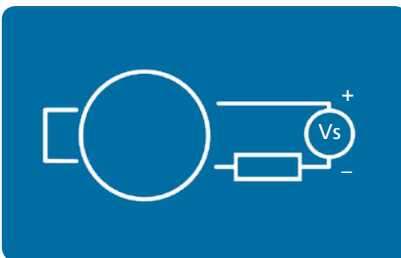
PTX
20

High specification liquid level transmitter with ATEX / IECEx version.



PTX
23

High specification corrosive media level transmitter with ATEX version.



PRESSURE	Range options	Range from zero	(> 2 to 700) Bar	(> 50 to 2000) mBar	(>0.1 to 1000) Bar	(>1 to 250) mH2O	(>1 to 250) mH2O
		Other range	(-1 to 1) Bar	N/A	N/A	N/A	N/A
Type	Gauge	Yes	Yes	Yes	Yes	Yes	Yes
	Absolute	Yes	Yes	N/A	Yes	Yes	Yes
	Sealed gauge	Yes	Yes	N/A	N/A	N/A	N/A
OUTPUT	2-wire (4 to 20) mA loop-powered	Yes	Yes	Yes	Yes	Yes	Yes
	Voltage output	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)	N/A	N/A
GENERAL	Standard accuracy	$\leq \pm 0.5\%$ FS	$\leq \pm 0.5\%$ FS	$\leq \pm 0.25\%$ FS	$\leq \pm 0.25\%$ FS	$\leq \pm 0.2\%$ FS	$\leq \pm 0.2\%$ FS
	Operating temperature	(-20 to +80) °C	(-20 to +80) °C	(-40 to +125) °C	(-5 to +80) °C	(-5 to +80) °C	(-5 to +80) °C
	Process temperature	(-20 to +135) °C	(-40 to +120) °C	(-40 to +150) °C	(-5 to +80) °C	(-5 to +80) °C	(-5 to +80) °C
	Diaphragm material	Ceramic	316 stainless steel	316 stainless steel	316 stainless steel	316 stainless steel with Teflon protection	316 stainless steel with Teflon protection
	Material of body and process connection	303 stainless steel	303 stainless steel	303 stainless steel	303 stainless steel	PVDF	PVDF
	Standard seals	Viton	Viton	Viton	Viton	Viton	Viton
	Standard cable	N/A	N/A	N/A	1m PUR	1m PUR	1m PUR
PROCESS CONNECTION	1/4" BSP	Yes	Yes	Yes	N/A	Yes	Yes
	1/4" NPT	Yes	Yes	Yes	N/A	Yes	Yes
	1/2" BSP	Yes	Yes	Yes	N/A	Yes	Yes
	1/2" BSP flush	Yes	Yes	Yes	N/A	Yes	Yes
	Other to order	Yes	Yes	Yes	N/A	Yes	Yes
	Open or closed ends	N/A	N/A	N/A	Yes	Standard open, in titanium	Standard open, in titanium
APPROVALS	ATEX	N/A	N/A	Yes	Yes	Yes	Yes

Infra-red sensors



Non-contact infra-red sensor with 2:1 divergent optics.



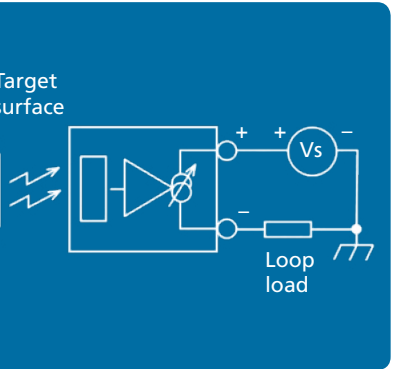
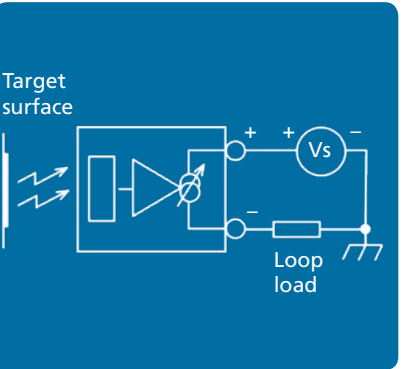
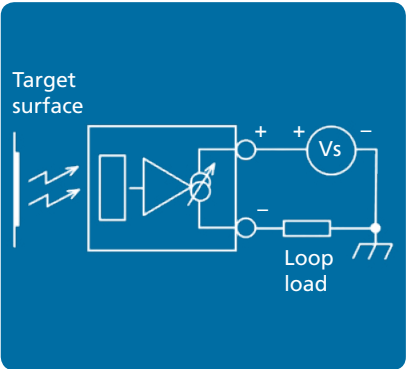
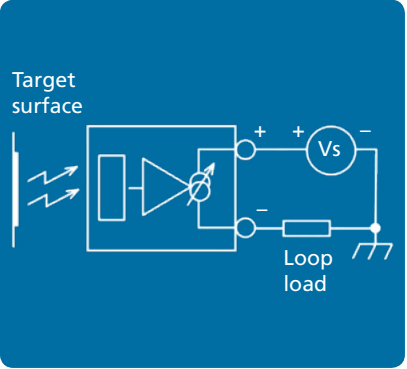
Non-contact infra-red sensor with 15:1 divergent optics.



Non-contact infra-red sensor with 30:1 divergent optics.



Non-contact infra-red sensor with close focus (CF) optics.



INPUT

Temperature measuring range

(-20 to +250) °C

(-20 to +500) °C

(-20 to +250) °C

(-20 to +250) °C

BASE
ACCURACY

Measurement accuracy

± 1% of reading, or ± 1 °C,
whichever is the greater

± 1% of reading, or ± 1 °C,
whichever is the greater

± 1% of reading, or ± 1 °C,
whichever is the greater

± 1% of reading, or ± 1 °C,
whichever is the greater

OUTPUT

Output, loop-powered

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

GENERAL

Standard cable length

1m

1m

1m

1m

Emissivity

Fixed at 0.95

Fixed at 0.95

Fixed at 0.95

Fixed at 0.95

Power supply

(6 to 28) VDC

(6 to 28) VDC

(6 to 28) VDC

(6 to 28) VDC

Ambient operating (electronics, not sensor)

(0 to +70) °C

(0 to +70) °C

(0 to +70) °C

(0 to +70) °C

IP rating

65

65

65

65

Body material

Stainless steel

Stainless steel

Stainless steel

Stainless steel

Lens material

Glass

Glass

Glass

Glass

Dimensions

18mm dia. x 103mm length

18mm dia. x 103mm length

18mm dia. x 103mm length

18mm dia. x 103mm length

Thread mount

M16 x 1mm

M16 x 1mm

M16 x 1mm

M16 x 1mm

Legacy Products

Because the Status product range is constantly evolving and growing, you might find that if you try to re-order a trusted and long-serving product, it may no longer be available in its original form.

So we thought it would be helpful to list here all discontinued products, and show you which of our current models would replace them. Then you can be sure to get the right state-of-the-art Status product, to serve you for many more years to come.

We also still have available to special order a number of older products, which are not included in the main body of this Product Guide.

As always, if you need more specific help or advice, please call us and we'll be happy to assist you.



These Status products, and those listed below, are no longer available. So here's how to replace them...

Discontinued product	Description	Replacement
DM500	Loop-powered LCD indicator	DM700
DM540X	ATEX field-mounted display	DM640X
DM4000U	Panel meter	DM3600U
DM4000A	Panel meter	DM3600A
DM4000C	Panel meter	DM4500F - most functions
MEDACS 2100 Series	Universal input single-channel signal conditioner	SEM1700 - most functions
MEDACS 2200 Series	Universal input dual-channel signal conditioner	SEM1720 / SEM1750 most functions
MEDACS 2300 Series	Frequency input single-channel signal conditioner	SEM1600/F most functions
MEDACS 2400 Series	Frequency input dual-channel signal conditioner	SEM1600/F most functions
PTX24	Process pressure transmitter	PTX19
SEM108P	In-head temperature transmitter	SEM206P
SEM1100	Powered isolating voltage to current / current to voltage convertor	SEM1700
SEM1401 / 1402	Loop-powered trip amplifier	SEM1636
SEM1500/TC	Thermocouple DIN rail temperature transmitter	SEM1605/TC
SEM1503P	Pt100 DIN rail temperature transmitter	SEM1605/P
SEM1504/P	4-wire Pt100 DIN rail temperature transmitter	SEM1615
SEM1603	Rail-mounted temperature transmitter for Pt100 or thermocouple sensors	SEM1605P/TC
SEM1610	Universal temperature transmitter, DIN rail mount	SEM1615
SEM1620	3-wire voltage output signal conditioner	SEM1600VI
SEM164	Humidity and temperature transmitter	SEM160, SEM161 or SEM162
SEM165HP	High-temperature humidity and temperature transmitter	No direct replacement for higher temperature version
SEM167H1C	Wall-mounted humidity transmitter with power supply and output options	SEM162
SEM167H1P	Duct-mounted humidity transmitter with power supply and output options	SEM162
SEM167H1R	Remote mount humidity transmitter with power supply and output options	SEM162
SEM205X	ATEX temperature transmitter	TTR200X
SEM210 MKI	Universal in-head temperature transmitter	SEM210 MKII
SEM213P	Manual push-button Pt100 4-20mA DIN rail temperature transmitter	SEM1605/P
SEM213TC	Manual push-button thermocouple 4-20mA DIN rail temperature transmitter	SEM1605/TC
SEM215	PC-programmable universal 4-20mA DIN rail temperature transmitter with user linearisation feature	SEM1615
SEM310 MKI	Universal HART in-head temperature transmitter	SEM310 MKII
SEM315 MKI	DIN rail Universal HART temperature transmitter	SEM315 MKII

Older products still available		
SEM104P	Analogue Pt100 temperature transmitter	
SEM104TC	Analogue thermocouple temperature transmitter	
SEM110P	High-accuracy analogue Pt100 temperature transmitter	
STA206P	Cost-effective temperature sensor with built-in transmitter	