



PRODUCT GUIDE

www.status.co.uk

Welcome

to the latest Status Instruments Product Guide

Here at Status, during 2017 we'll be celebrating our **35th birthday** - and we're very proud to say that we've been making top-quality instrumentation for all that time. We've 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 ISO9001:2008.

Our products also comply with the following accreditations:



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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How to use this Guide

This latest edition of our Product Guide is divided into sections, as listed below. 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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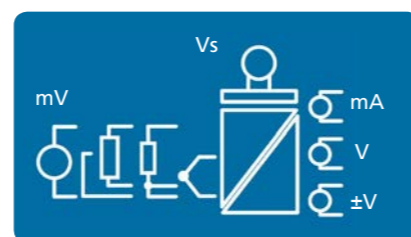
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Signal conditioning



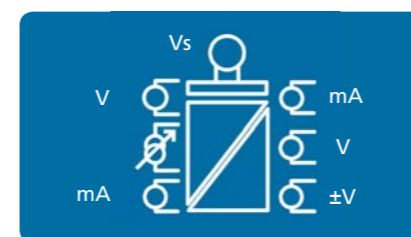
SEM 1600T

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



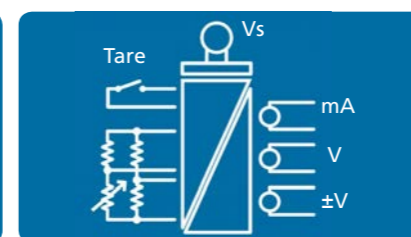
SEM 1600VI

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



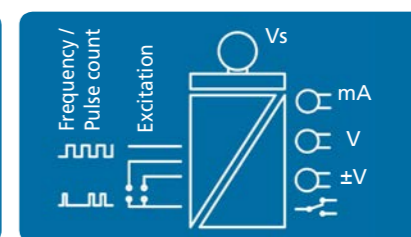
SEM 1600B

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
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
Yes
(10 to 10,500) Ω
10 Ω 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

mA - active / passive
Voltage
Bi-polar voltage

Yes
Yes
Yes
Yes - resistance / potentiometer / mV
N/A
(-30 to +70) °C
Universal, (10 to 48) VDC and (10 to 32) VAC
Yes - output
N/A
PC
N/A
N/A
17.5 mm

N/A
N/A
N/A
N/A
N/A
(-50 to +50) VDC
(-50 to +50) mA (active / passive)
N/A
N/A
N/A

mA - active / passive
Voltage
Bi-polar voltage

Yes
Yes
N/A
Yes
N/A
(-30 to +70) °C
Universal, (10 to 48) VDC and (10 to 32) VAC
Yes - input and output
N/A
PC
N/A
Flow formulae
17.5 mm

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
Yes - 4-wire

mA - active / passive
Voltage
Bi-polar voltage

Yes
Yes - push-button
Yes - tare
Yes
Tare
(-30 to +70) °C
Universal, (10 to 48) VDC and (10 to 32) VAC
Yes - output
Yes
PC
N/A
N/A
17.5 mm

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
0.01 Hz to 65 kHz
Yes
N/A

mA - active / passive
Voltage
Bi-polar voltage
Pulse (closed contact relay)

Yes
Yes
N/A
N/A
Yes
(-30 to +70) °C
Universal, (10 to 48) VDC and (10 to 32) VAC
Yes - output
Yes
PC
Yes
17.5 mm

Signal conditioning



SEM 1620

RTD, thermocouple, passive mA, mV input, 3-wire voltage output.



SEM 1630

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



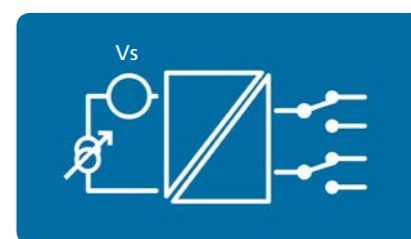
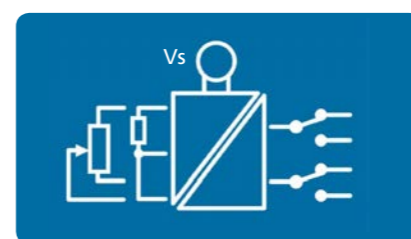
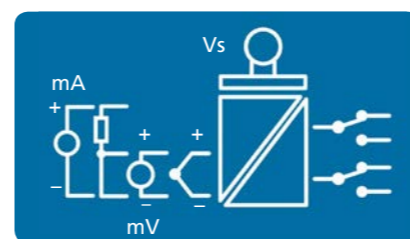
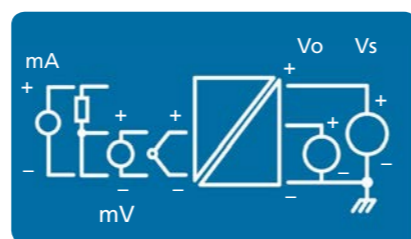
SEM 1633

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

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

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

Yes
Yes
(10 to 10,500) Ω
10 Ω to 100 kΩ auto sense
N/A
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
N/A
N/A
(4 to 20) mA Passive
N/A
N/A
N/A

OUTPUT

See datasheet for full details and specific output combinations

Voltage - 3 wire

2 x (250 VAC @ 1A) C/O relay

2 x (250 VAC @ 1A) C/O relay

2 x (250 VAC @ 1A) C/O relay

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
Yes
N/A
N/A
N/A
(-30 to +70) °C
(15 to 28) VDC
N/A
N/A
PC
N/A
N/A
N/A
17.5 mm

Yes
N/A
N/A
N/A
N/A
(-30 to +70) °C
24 VDC
N/A
N/A
PC
N/A
N/A
N/A
17.5 mm

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

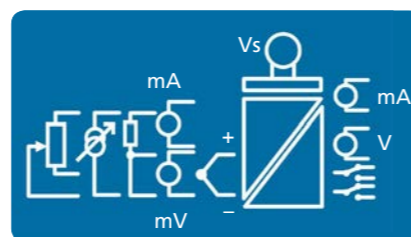
Yes - relays
N/A
N/A
Yes
N/A
(-30 to +70) °C
(4 to 20) mA loop
N/A
N/A
PC
N/A
Yes - flow formula
17.5 mm

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 kΩ
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

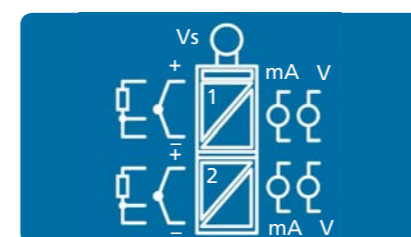
mA - active / passive
Voltage
2 x (250 VAC @ 1A) C/O Relay

Yes
Yes - push-button
N/A
N/A
N/A
(-30 to +70) °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
10 Ω to 100 kΩ auto sense
K, J, N, E, T, R, S, L, U, B, C, D, G
N/A
N/A
N/A
N/A

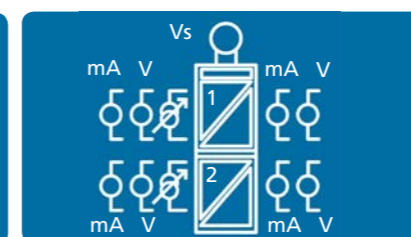
mA - active / passive
Voltage
Optional programmable maths outputs to include average, sum and splitter functions

Yes
N/A
Yes
Yes
N/A
(-30 to +70) °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

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) °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.



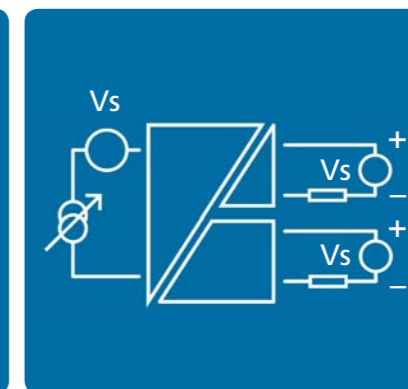
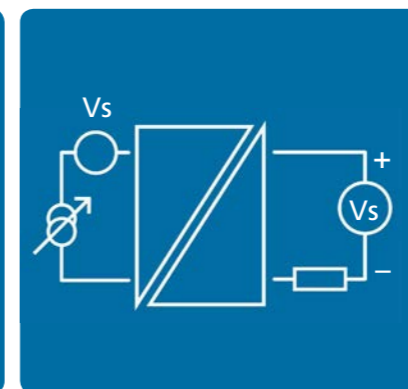
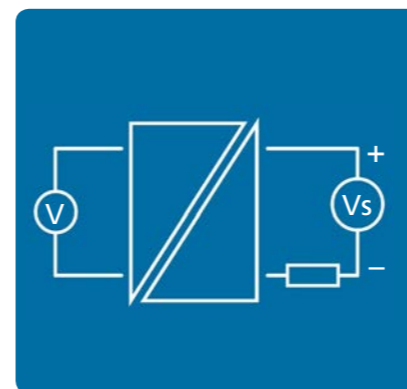
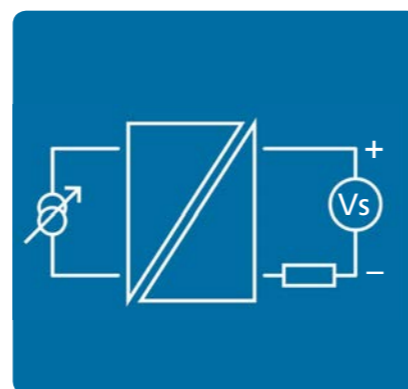
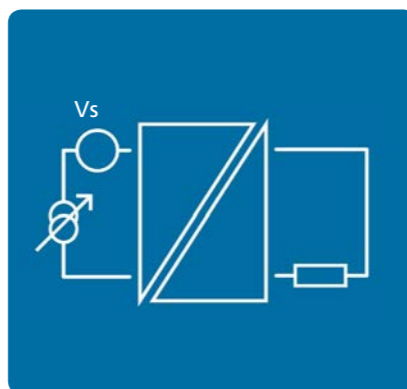
SEM 1020

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 passive	(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	N/A	Input and output 2.7 VDC	Input and outputs 5.0 VDC
	Maximum loop supply	Input 35 VDC	Output 35 VDC	Output 30 VDC	Input and output 35 VDC	Input and output 32 VDC
	Isolation	500 VDC	500 VDC	500 VDC	500 VDC	500 VDC
	Maximum load	Output 500 Ω	N/A	N/A	Output 1200 Ω	Outputs 1200 Ω
	Power supply	Input loop	Output loop	Output loop	Both loops	All loops
Ambient operating temperature	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	
Width	12.5 mm	21 mm	12.5 mm	12.5 mm	12.5 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.



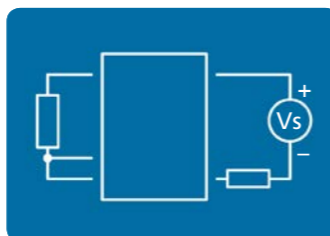
SEM 1801/2RX

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

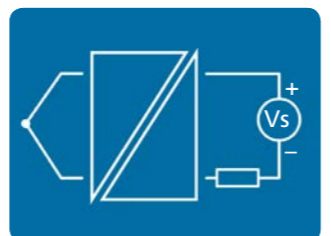


SEM 1801/2TCX

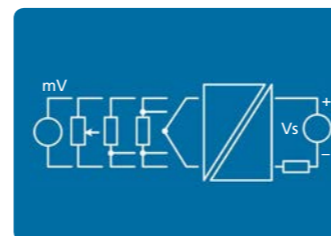
Thermocouple transmitter; PC configuration. IS-approved.



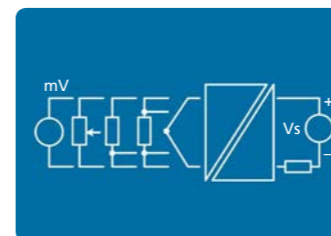
Single channel



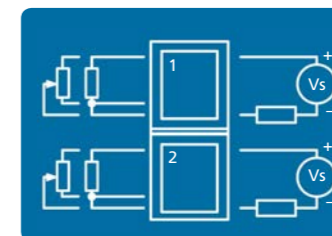
Single channel



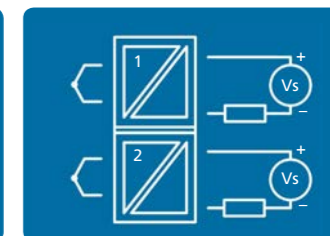
Dual input



Dual input



Single or dual channel



Single or dual channel

INPUT

TYPE

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

- Voltage
- Current

Yes - 2, 3 wire	N/A
Yes	N/A
N/A	N/A
N/A	N/A
N/A	K, J, N, E, T, R, S, L, U, B, C, D, G
N/A	N/A
N/A	N/A

Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire
Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire
(10 to 10,500) Ω	(10 to 10,500) Ω
1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ auto sense
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
(-1000 to +1000) mV	(-1000 to +1000) mV
N/A	N/A

Yes - 2, 3 wire	N/A
Yes - 2, 3 wire	N/A
N/A	N/A
Yes	N/A
N/A	K, J, N, E, T, R, S, L, U, B, C, D, G
N/A	N/A
N/A	N/A

OUTPUT

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

N/A	Yes
N/A	N/A
Yes	Yes
Yes	Yes
(-30 to +70) °C	(-30 to +70) °C
(10 to 30) VDC	(10 to 30) VDC
PC	PC
17.5 mm	17.5 mm

Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
(-30 to +70) °C	(-30 to +70) °C
(10 to 30) VDC	(10 to 30) VDC
PC	PC - HART configurator
17.5 mm	17.5 mm

N/A	N/A
Yes - resistance / potentiometer	Yes
Yes	Yes
Yes	Yes
(-30 to +70) °C	(-30 to +70) °C
(10 to 30) VDC	(10 to 30) VDC
PC	PC
22 mm	22 mm

APPROVALS

- ATEX
- IEC Ex
- EMC

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

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

Yes	Yes
Yes	Yes
EN BS 61326	EN BS 61326

Wireless transmitters



WTX
700

Universal head-mounted wireless transmitter



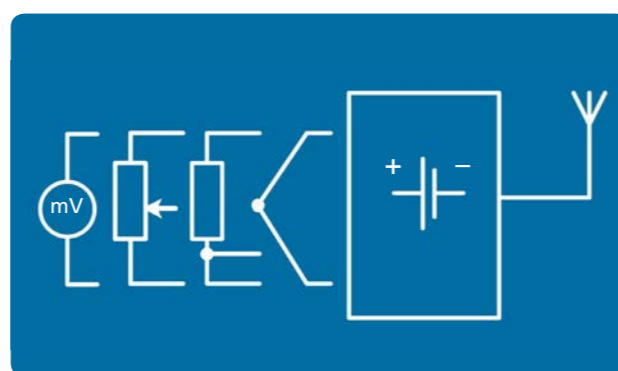
WTR
900 / 04

Wireless receiver for up to 16 x WTX700

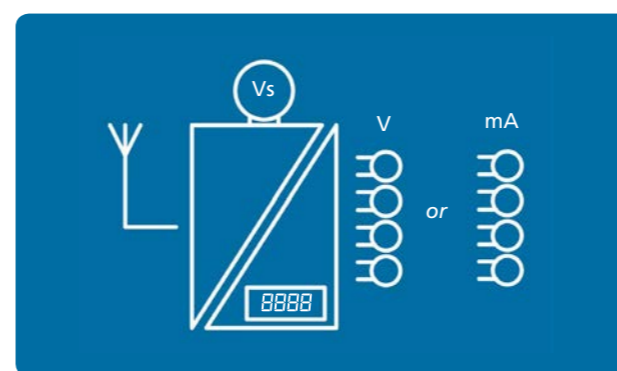


WTR
900 / 22

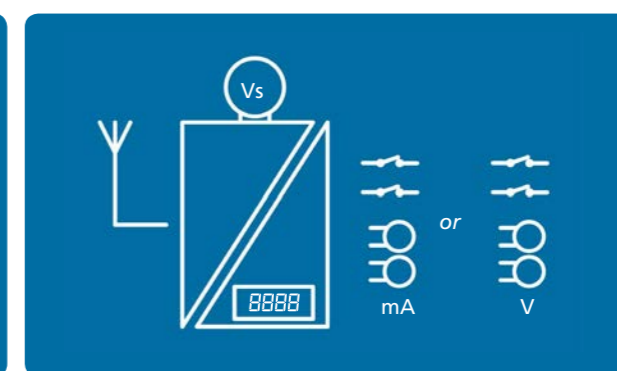
Wireless receiver for up to 16 x WTX700



Head mount in SCH4 or SCH11



DIN rail



DIN rail

INPUT

TYPE

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

OUTPUT

Communication

Measurement data on ISM band 868.4 MHz
N/A

GENERAL

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)

From radio signal
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 configuration kit
22.5 mm

From radio signal
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

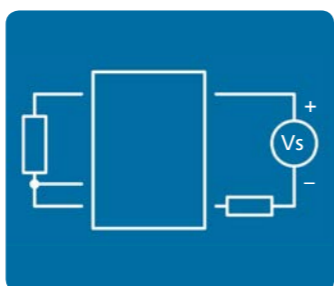
300 m line of sight
Links up to 16 x WTX700 transmitters
(-20 to +50) °C
(110 to 240) VAC or (20 to 30) VDC
PC / push-button configuration kit
22.5 mm

In-head transmitters



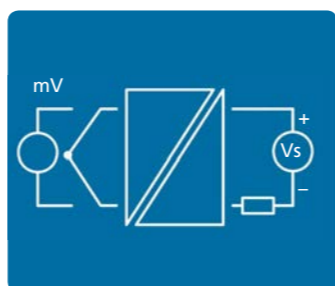
SEM 203P

Pt100 transmitter; push-button configuration.



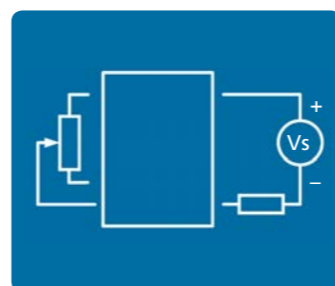
SEM 203TC

Thermocouple transmitter; push-button configuration.



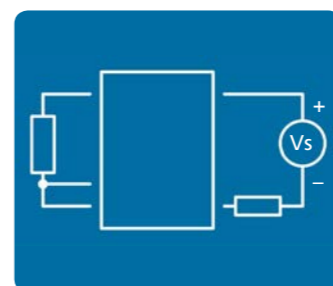
SEM 203W

Potentiometer transmitter; push-button configuration.



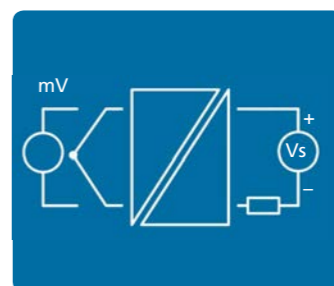
SEM 206P

Pt100 transmitter; PC configuration.



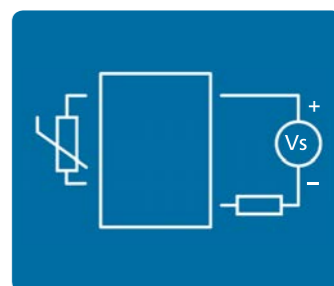
SEM 206TC

Thermocouple transmitter; PC configuration.



SEM 206TH

Thermistor transmitter; PC / push-button configuration.



INPUT

TYPE

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

OUTPUT

GENERAL

APPROVALS

	In-head	In-head	In-head	In-head	In-head	In-head
Yes - 2, 3 wire	Yes - 2, 3 wire	N/A	N/A	Yes - 2, 3 wire	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	N/A	N/A
N/A	N/A	N/A	1 kΩ to 100 kΩ	N/A	N/A	N/A
N/A	N/A	K, J, N, E, T, R, S	N/A	N/A	K, J, N, E, T, R, S	N/A
N/A	N/A	(-10 to +70) mV	N/A	N/A	(-10 to +70) mV	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	Yes
(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA
N/A	N/A	Yes	N/A	N/A	Yes	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yes - push-button	Yes - push-button	Yes - push-button	Yes - push-button	N/A	N/A	Yes - push-button
N/A	N/A	N/A	N/A	Yes	Yes	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C
(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
Push-button	Push-button	Push-button	Push-button	PC	PC	Push-button / PC
43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.
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
Yes	Yes	Yes	Yes	Yes	Yes	N/A
EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

In-head transmitters

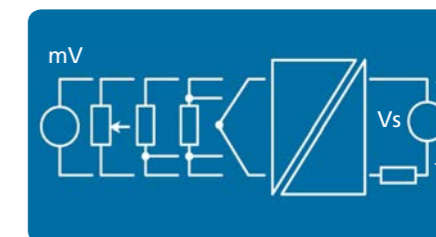
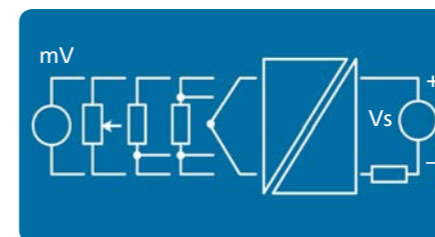
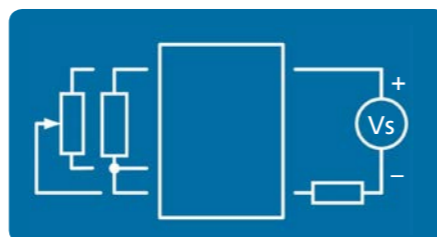


RTD, potentiometer, resistance transmitter; PC configuration.
IS-approved version: TTR200X.

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

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

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



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

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

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

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

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA HART

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

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

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

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

Yes
Yes
Yes
EN BS 61326

Yes
Yes
Yes
EN BS 61326

Yes
Yes
Yes
EN BS 61326

INPUT

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

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



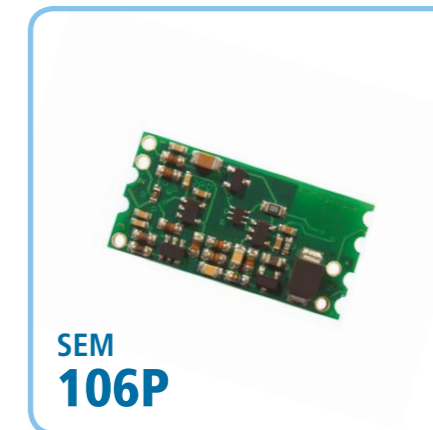
SEM 710
Head-mounted RTD, thermocouple transmitter with integrated display. PC configuration.



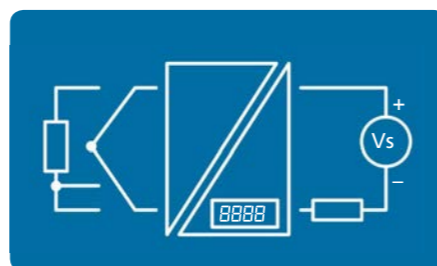
HTR 200/1
MA head-mounted RTD, potentiometer, resistance transmitter.



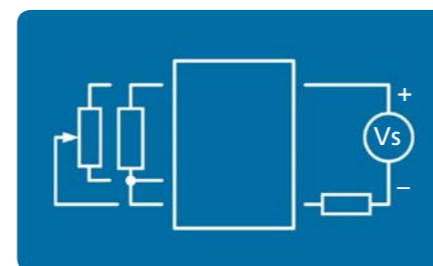
HTR 200/1V
MA head-mounted RTD, potentiometer, resistance transmitter with voltage output.



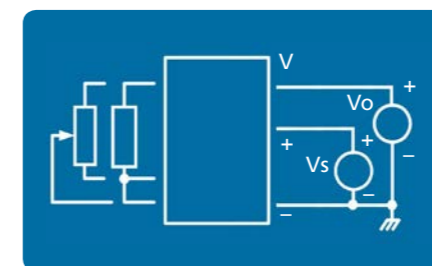
SEM 106P
OEM transmitter - build into your own device.



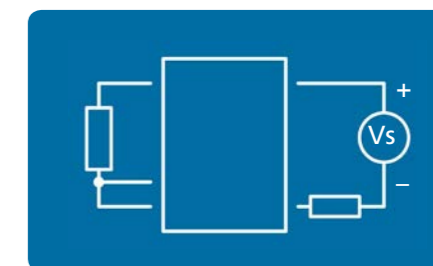
In-head (SCH4 or SCH15)



In-head



In-head



In-head

	SEM 710	HTR 200/1	HTR 200/1V	SEM 106P
INPUT	TYPE	In-head (SCH4 or SCH15)	In-head	In-head
	Pt100	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3 wire
	Other RTD sensors	N/A	Yes - 2, 3 wire	Yes - 2, 3 wire
	Resistance	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω
	Potentiometer	N/A	1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ auto sense
Thermocouple type	K, J, N, E, T, R, S	N/A	N/A	N/A
Voltage	(-1000 to +1000) mV	N/A	N/A	N/A
Current	N/A	N/A	N/A	N/A
Thermistor	N/A	Yes	Yes	N/A
OUTPUT		(4 to 20) mA	(4 to 20) mA	3-wire programmable voltage output
				(4 to 20) mA
GENERAL	Isolation	Yes	N/A	N/A
	Custom linearisation	N/A	Yes -resistance / potentiometer	Yes -resistance / potentiometer
	Output zero/span alignment to input	N/A	Yes	Yes
	User offset	N/A	Yes	Yes
	Display	4-digit LED (9mm)	N/A	N/A
	Ambient operating	(-20 to +70) °C	(-40 to +85) °C	(-40 to +85) °C
	Power supply	(15 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
	Configuration	PC / push-button trim	PC	PC
Dimensions	(see data sheet)	(see data sheet)	(see data sheet)	
APPROVALS	ATEX	N/A	N/A	N/A
	IEC Ex	N/A	N/A	N/A
	Marine DNV standard	N/A	N/A	N/A
	EMC	EN BS 61326	EN BS 61326	EN BS 61326

Field mounted displays

for use with temperature probes



DM 640P

LCD battery-powered Pt100 thermometer.



DM 640XP

ATEX-approved LCD battery-powered Pt100 thermometer.



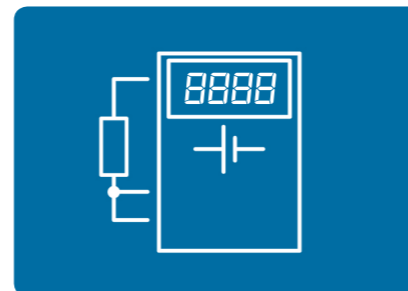
DM 640TC

LCD battery-powered thermocouple thermometer.

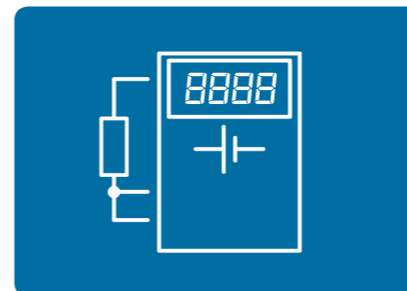


DM 640XTC

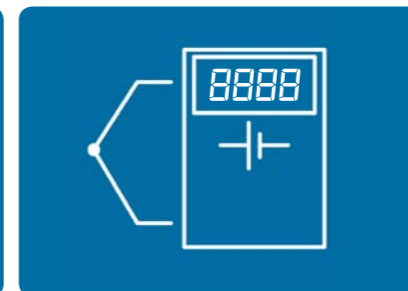
ATEX-approved LCD battery-powered thermocouple thermometer.



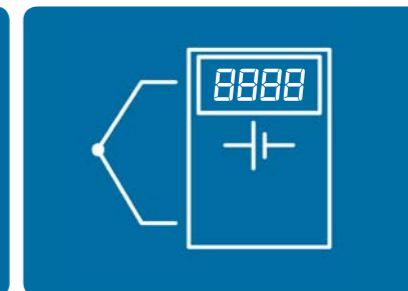
Sensor / surface mount



Sensor / surface mount



Sensor / surface mount



Sensor / surface mount

INPUT

Mechanical

Pt100

Thermocouple

Current

Voltage

Linearisation/offset

OUTPUT

Display

Max / min

GENERAL

Ambient operating

Power supply

Battery life

Enclosure

Environmental rating

Configuration

APPROVALS

ATEX

Yes
N/A
N/A
N/A
Offset

4-digit LCD 8.5 mm
N/A

(-10 to +70) °C
Battery 3.6 V lithium
2 years typical
SCH4 / SCH15
IP67
Push-button

N/A

Yes
N/A
N/A
N/A
Offset

4-digit LCD 8.5 mm
N/A

(-10 to +50) °C
Battery 3.6 V lithium
2 years typical
SCH4
IP67
Push-button

Yes

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

4-digit LCD 8.5 mm
N/A

(-10 to +70) °C
Battery 3.6 V lithium
2 years typical
SCH4 / SCH15
IP67
Push-button

N/A

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

4-digit LCD 8.5 mm
N/A

(-10 to +50) °C
Battery 3.6 V lithium
2 years typical
SCH4
IP67
Push-button

Yes

Field mounted displays

for use with temperature probes and current loops



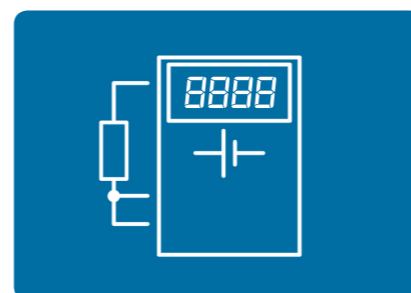
DM 660
Large digit LCD battery-powered Pt100 thermometer.



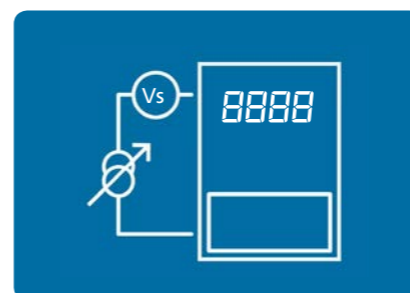
DM 700
(4 to 20) mA loop-powered LED process indicator.



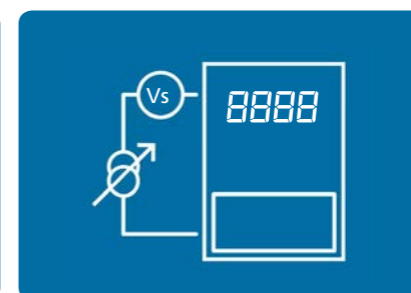
DM 700X
ATEX-approved (4 to 20) mA loop-powered LED process indicator.



Sensor / surface / panel mount



Sensor / surface mount



Sensor / surface mount

INPUT

Mechanical

Pt100

Thermocouple

Current

Voltage

Linearisation/offset

Yes

N/A

N/A

N/A

N/A

OUTPUT

Display

Max / min

4-digit LCD 20 mm

Yes

4-digit LED 7 mm

N/A

4-digit LED 7 mm

N/A

GENERAL

Ambient operating

Power supply

Battery life

Enclosure

Environmental rating

Configuration

(-10 to +50) °C

Battery 3.6 V lithium

2 years typical

Stainless steel 100mm dia.

IP65

N/A

(-20 to +75) °C

(4 to 20) mA loop

N/A

SCH4 / SCH15

IP67

Push-button

(-20 to +75) °C

(4 to 20) mA loop

N/A

SCH4

IP67

Push-button

APPROVALS

ATEX

N/A

N/A

Yes

Probe assemblies

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

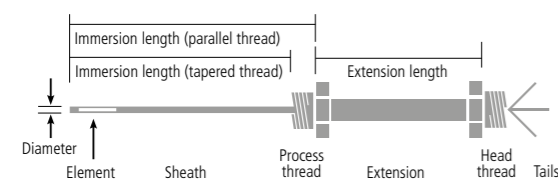
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

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

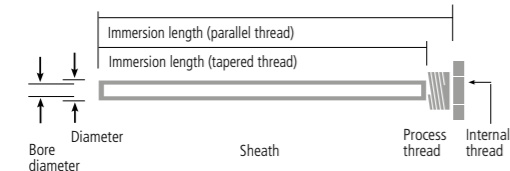
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

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



(items shown not necessarily to scale)

Transmitters/ Displays

Many will suit; these are just some examples



Connection blocks



Heads



Compression glands



Thermowells



Panel meters



DM 720
Loop-powered panel meter



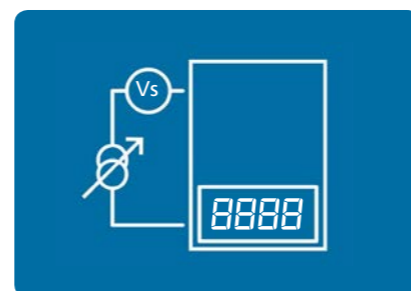
DM 3410
Pt100 / Thermocouple 4-digit panel meter with output options.



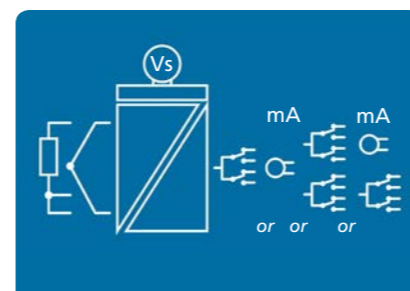
DM 3420
Current / voltage 4-digit panel meter with output options.



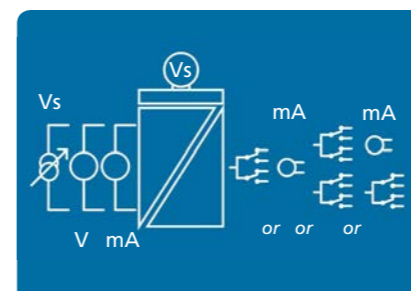
DM 3430
High-voltage / current true RMS 4-digit panel meter with output options.



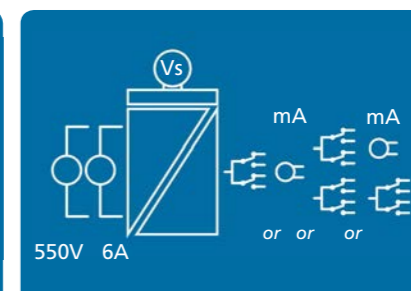
(48 x 24) mm panel mount



(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
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

Panel meters



DM 3600U
6-digit universal panel meter.



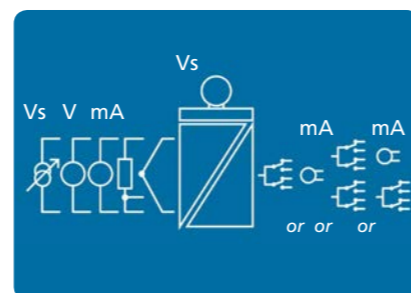
DM 3600A
6-digit universal panel meter with rate /totaliser.



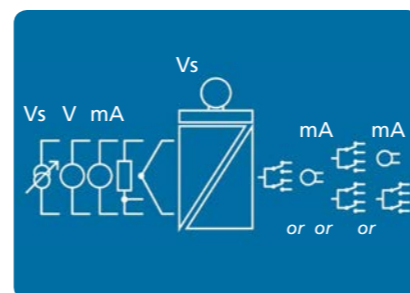
DM 4500U
Multi-colour 5-digit universal panel meter with load cell input.



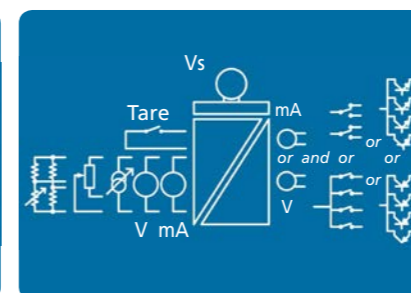
DM 4500F
Multi-colour 5-digit universal panel meter with frequency / pulse counter input.



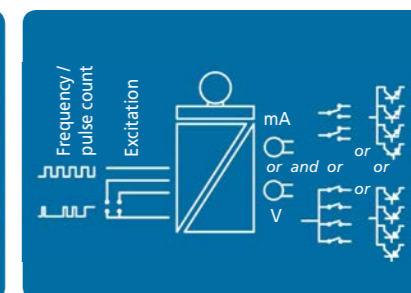
(96 x 48) mm panel mount



(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

Yes
K, J, T, R, S, E, L, N, B
Yes (active or passive)
± 100 mV, ± 1 VDC, ± 10 VDC
N/A
Yes - with comms
Yes

2 x relay (250 VAC @ 5 A) POD
Current (active or passive) POD
RS485 Modbus (RJ45)
6-digit LED process display

Yes
6-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 / comms option
Yes
Option
Yes - with comms

Yes
K, J, T, R, S, E, L, N, B
Yes (active or passive)
± 100 mV, ± 1 VDC, ± 10 VDC
N/A
Yes - with comms
Yes

2 x relay (250 VAC @ 5 A) POD
Current (active or passive) POD
RS485 Modbus (RJ45)
6-digit LED process display

Yes
6-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 / comms option
Rate / total
Option
Yes - with comms

Yes
K, J, T
Yes (active or passive)
± 10 VDC
N/A
Yes
Yes

2 x relay (250 VAC @ 8 A) option
4 x relay (250 VAC @ 5 A) option
Current (active or passive)
RS485 Modbus option
NPN / PNP logic option
5-digit LED process display

Yes
5-digit LED 14.2 mm multi-colour
(-10 to +60) °C
(10.5 to 70) VDC and (22 to 53) VAC or (85 to 265) VAC and (100 to 300) VDC
Input, output (option)
Yes - load cell
Push-button / comms option
Yes, and tare
Output (option)
N/A

N/A
N/A
N/A
N/A
Yes - see data sheet
Yes
Scaling

2 x relay (250 VAC @ 8 A) option
4 x relay (250 VAC @ 5 A) option
Current (active or passive)
RS485 Modbus option
NPN / PNP logic option
5-digit LED process display

Yes
5-digit LED 14.2 mm multi-colour
(-10 to +60) °C
(10.5 to 70) VDC and (22 to 53) VAC or (85 to 265) VAC and (100 to 300) VDC
Input, output (option)
Yes - load cell
Push-button / comms option
Total / counter
Output (option)
N/A

Humidity and temperature transmitters



SEM 160 ID/H
Cost-effective single-channel duct-mounted humidity Transmitter.



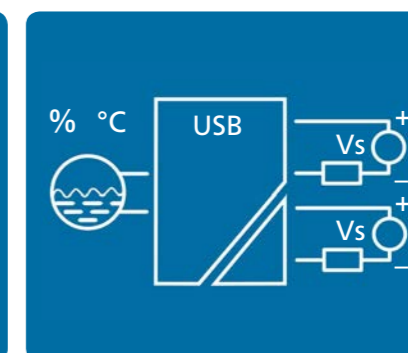
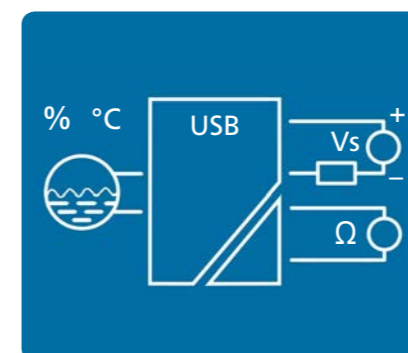
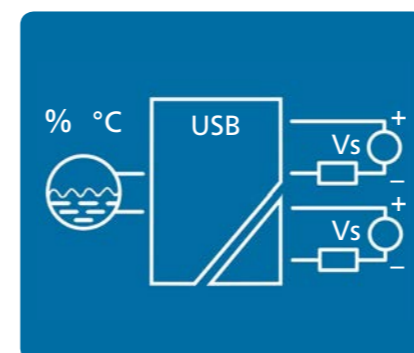
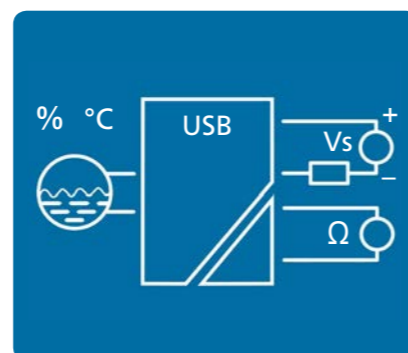
SEM 160 ID/HP
Cost-effective dual-channel duct-mounted humidity / temperature transmitter.



SEM 160 IW/H
Cost-effective single-channel wall-mounted humidity transmitter.



SEM 160 IW/HP
Cost-effective dual-channel wall-mounted humidity / temperature transmitter.



INPUT

Temperature range

Humidity (RH)

BASE ACCURACY

Temperature

Humidity (RH)

OUTPUT

Output channels

Output choices: Temperature

Humidity

Dewpoint

ΔTd - difference between dewpoint temperature and temperature

Direct thermistor option

GENERAL

Sensor length

Configuration

Power supply

Ambient operating (electronics, not sensor)

Encapsulated electronics

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±3% RH

1 x (4 to 20) mA

Programmable

Default

Programmable

Programmable

Yes

120, 250 mm

PC

(10 to 30) VDC

(-20 to +70) °C

N/A

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±3% RH

2 x (4 to 20) mA

Default

Default

Programmable

Programmable

No

120, 250 mm

PC

(10 to 30) VDC

(-20 to +70) °C

N/A

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±3% RH

1 x (4 to 20) mA

Programmable

Default

Programmable

Programmable

Yes

120 mm

PC

(10 to 30) VDC

(-20 to +70) °C

N/A

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±3% RH

2 x (4 to 20) mA

Default

Default

Programmable

Programmable

No

120 mm

PC

(10 to 30) VDC

(-20 to +70) °C

N/A

Humidity and temperature transmitters



SEM 161 W/H
Single-channel wall-mounted humidity transmitter.

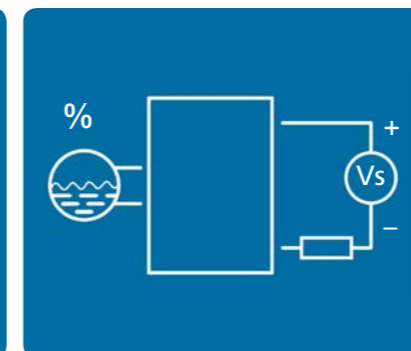
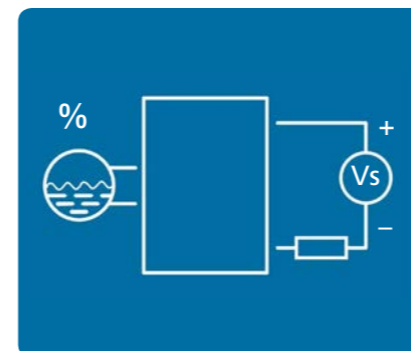
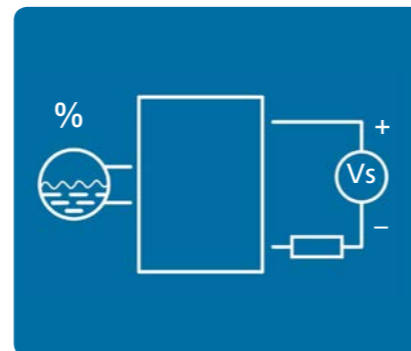


SEM 161 D/H
Single-channel duct-mounted humidity transmitter.



SEM 161 R/H
Single-channel remote mount humidity transmitter.

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



INPUT

Temperature range

Humidity (RH)

BASE ACCURACY

Temperature

Humidity (RH)

OUTPUT

Output channels

Output choices: Temperature

Humidity

Dewpoint

ΔT_d - difference between dewpoint temperature and temperature

Direct thermistor option

GENERAL

Plug-in sensor

Cable / sensor length

Display option

Configuration

Power supply

Ambient operating (electronics, not sensor)

Encapsulated electronics

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±2% RH

1 x (4 to 20) mA

Programmable

Default

Programmable

Programmable

N/A

Yes

120 mm

Yes

PC

(10 to 30) VDC *

(-30 to +85) °C

Yes

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±2% RH

1 x (4 to 20) mA

Default

Default

Programmable

Programmable

N/A

N/A

120, 250, 500 mm

Yes

PC

(10 to 30) VDC *

(-30 to +85) °C

Yes

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±2% RH

1 x (4 to 20) mA

Programmable

Default

Programmable

Programmable

Yes

N/A

2m or 5m

Yes

PC

(10 to 30) VDC *

(-30 to +85) °C

Yes

Humidity and temperature transmitters



SEM 162 W/HP
Dual-channel wall-mounted temperature / humidity transmitter.

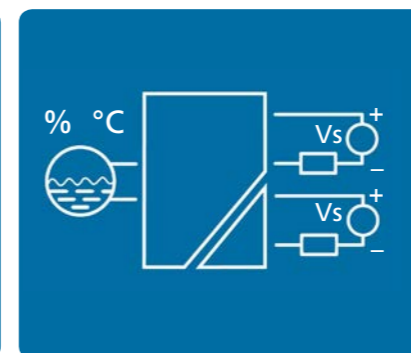
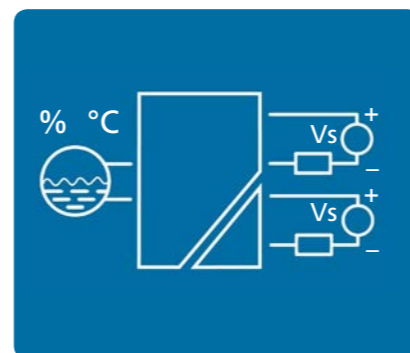
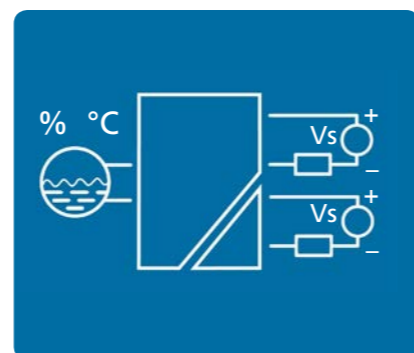


SEM 162 D/HP
Dual-channel duct-mounted temperature / humidity transmitter.



SEM 162 R/HP
Dual-channel remote mount temperature / humidity transmitter.

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



INPUT

Temperature range

Humidity (RH)

BASE ACCURACY

Temperature

Humidity (RH)

OUTPUT

Output channels

Output choices: Temperature

Humidity

Dewpoint

ΔTd - difference between dewpoint temperature and temperature

Direct thermistor option

GENERAL

Plug-in sensor

Cable / sensor length

Display option

Configuration

Power supply

Ambient operating (electronics, not sensor)

Encapsulated electronics

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±2% RH

2 x (4 to 20) mA

Default

Default

Programmable

Programmable

N/A

Yes

120 mm

Yes

PC

(10 to 30) VDC *

(-30 to +85) °C

Yes

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±2% RH

2 x (4 to 20) mA

Default

Default

Programmable

Programmable

N/A

Yes

120, 250, 500 mm

Yes

PC

(10 to 30) VDC *

(-30 to +85) °C

Yes

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±2% RH

2 x (4 to 20) mA

Default

Default

Programmable

Programmable

N/A

Yes

2m or 5m

Yes

PC

(10 to 30) VDC *

(-30 to +85) °C

Yes

Pressure transmitters



PTX 130/1 or 2

Cost-effective pressure transmitter.



PTX 130/G3 or G4

Cost-effective pressure transmitter.



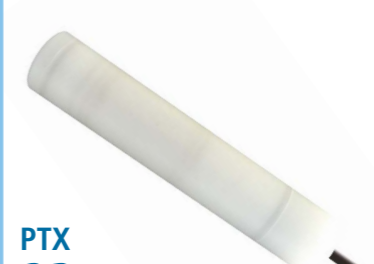
PTX 19

High specification pressure transmitter with ATEX / IECEx version.



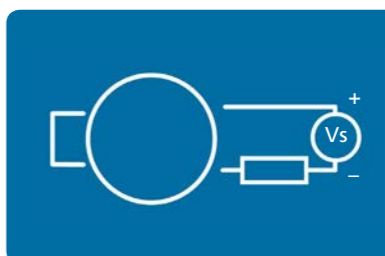
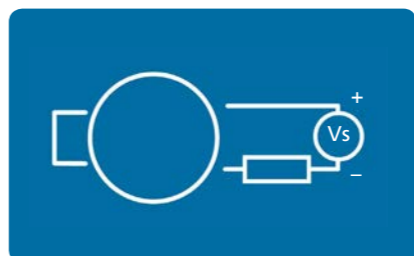
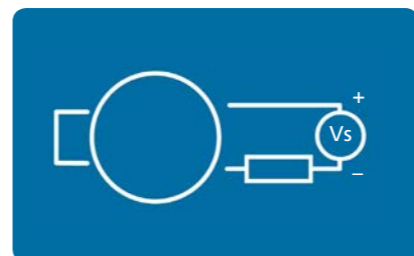
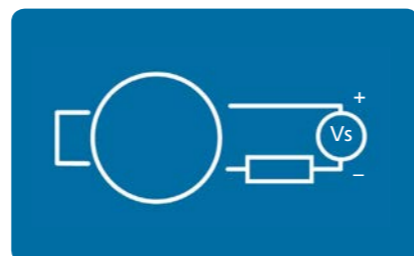
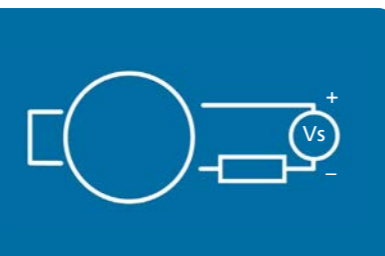
PTX 20

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**, **Other range**
- Type: **Gauge**, **Absolute**, **Sealed gauge**

(> 2 to 700) Bar	(> 50 to 2000) mBar
(-1 to 1) Bar	N/A
Yes	Yes
Yes	N/A
Yes	N/A

(> 2 to 700) Bar	(> 50 to 2000) mBar
(-1 to 1) Bar	N/A
Yes	Yes
Yes	N/A
Yes	N/A

(>0.1 to 1000) Bar	(>1 to 250) mH2O
N/A	N/A
Yes	Yes
Yes	Yes
N/A	N/A

(>0.1 to 1000) Bar	(>1 to 250) mH2O
N/A	N/A
Yes	Yes
Yes	Yes
N/A	N/A

(>0.1 to 1000) Bar	(>1 to 250) mH2O
N/A	N/A
Yes	Yes
Yes	Yes
N/A	N/A

OUTPUT

- 2-wire (4 to 20) mA loop-powered
- Voltage output

Yes	Yes
Yes (optional)	Yes (optional)

Yes	Yes
Yes (optional)	Yes (optional)

Yes	Yes
Yes (optional)	N/A

Yes	Yes
Yes (optional)	N/A

Yes	Yes
Yes (optional)	N/A

GENERAL

- Standard accuracy
- Operating temperature
- Process temperature
- Diaphragm material
- Material of body and process connection
- Standard seals
- Standard cable

≤ ±0.5% FS	≤ ±0.5% FS
(-20 to +80) °C	(-20 to +80) °C
(-20 to +135) °C	(-40 to +120) °C
Ceramic	316 stainless steel
303 stainless steel	303 stainless steel
Viton	Viton
N/A	N/A

≤ ±0.5% FS	≤ ±0.5% FS
(-20 to +80) °C	(-20 to +80) °C
(-40 to +120) °C	(-40 to +120) °C
316 stainless steel	316 stainless steel
303 stainless steel	303 stainless steel
Viton	Viton
N/A	N/A

≤ ±0.25% FS	≤ ±0.25% FS
(-40 to +125) °C	(-5 to +80) °C
(-40 to +150) °C	(-5 to +80) °C
316 stainless steel	316 stainless steel
303 stainless steel	303 stainless steel
Viton	Viton
N/A	1m PUR

≤ ±0.25% FS	≤ ±0.25% FS
(-40 to +125) °C	(-5 to +80) °C
(-40 to +150) °C	(-5 to +80) °C
316 stainless steel	316 stainless steel
303 stainless steel	303 stainless steel
Viton	Viton
N/A	1m PUR

≤ ±0.2% FS	≤ ±0.2% FS
(-5 to +80) °C	(-5 to +80) °C
(-5 to +80) °C	(-5 to +80) °C
316 stainless steel with Teflon protection	316 stainless steel with Teflon protection
PVDF	PVDF
Viton	Viton
1m PUR	1m PUR

PROCESS CONNECTION

- 1/4" BSP
- 1/4" NPT
- 1/2" BSP
- 1/2" BSP flush
- Other to order
- Open or closed ends

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

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

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

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

Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Standard open, in titanium	Standard open, in titanium

APPROVALS

- ATEX

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

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

Yes	Yes
-----	-----

Yes	Yes
-----	-----

Yes	Yes
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Infra-red sensors



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



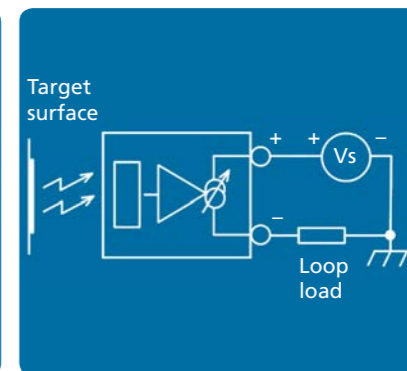
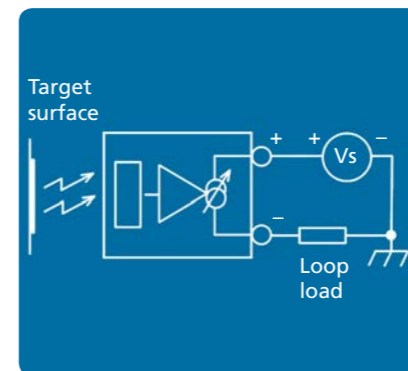
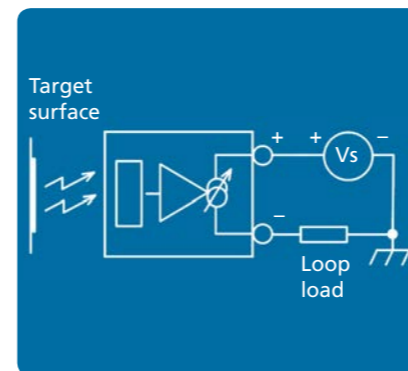
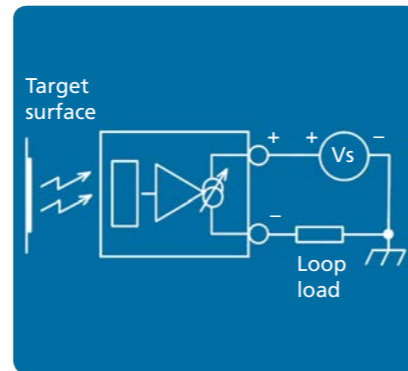
Non-contact infra-red sensor with 15:1 divergent optics.



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



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



INPUT
BASE ACCURACY
OUTPUT
GENERAL

Temperature measuring range

(-20 to +250) °C

(-20 to +500) °C

(-20 to +250) °C

(-20 to +250) °C

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, loop-powered

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

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
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
SEM164	Humidity and temperature transmitter	SEM160, SEM161 or SEM162
SEM165HP	High-temperature humidity and temperature transmitter	<i>No direct replacement for higher temperature version</i>
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
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