



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.

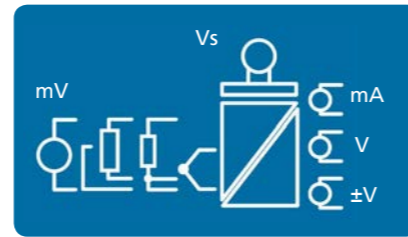
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Signal conditioning



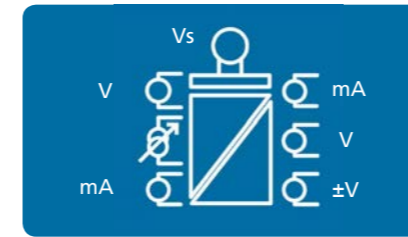
SEM 1600T

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



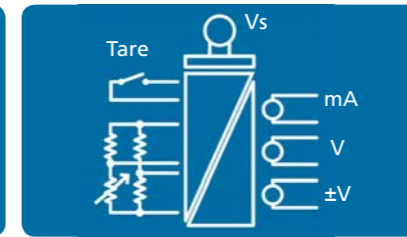
SEM 1600VI

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



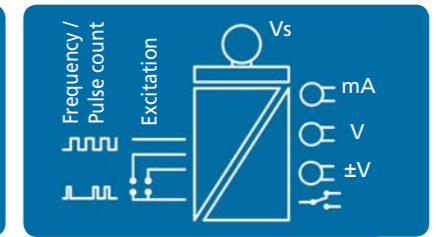
SEM 1600B

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

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

OUTPUT

See datasheet for full details and specific output combinations

mA - active / passive
Voltage
Bi-polar voltage

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
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
N/A
Flow formulae
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
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
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
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
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
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.



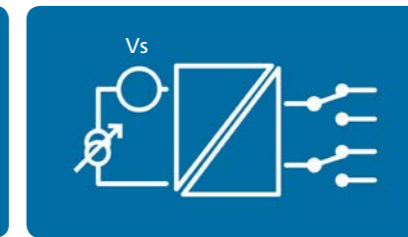
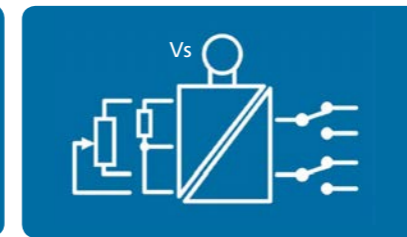
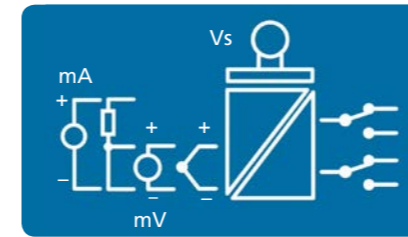
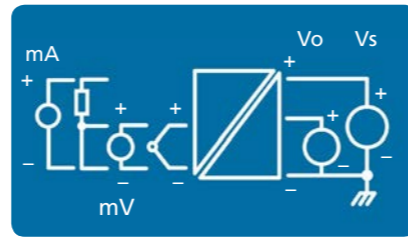
SEM 1633

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
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

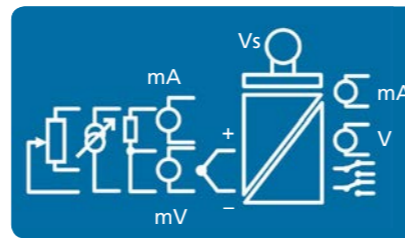
Yes - relays
N/A
N/A
Yes
N/A
(-30 to +70) °C
(4 to 20) mA loop
N/A
N/A
PC
N/A
Yes - flow formula
17.5 mm

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

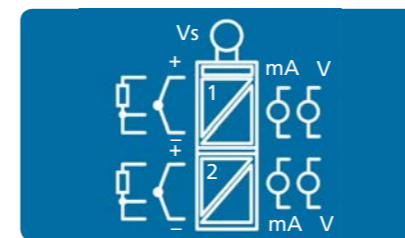
mA - active / passive
Voltage
2 x (250 VAC @ 1A) C/O Relay

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

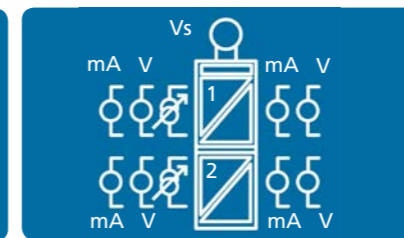
mA - active / passive
Voltage
Optional programmable maths outputs to include average, sum and splitter functions

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
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.



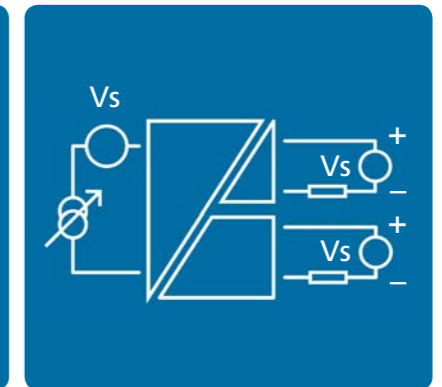
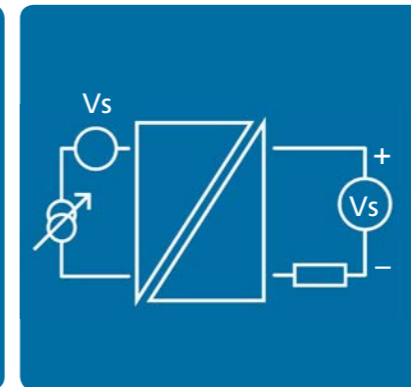
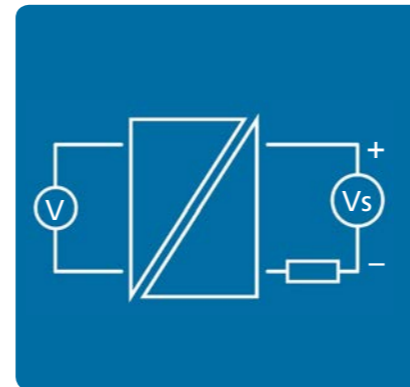
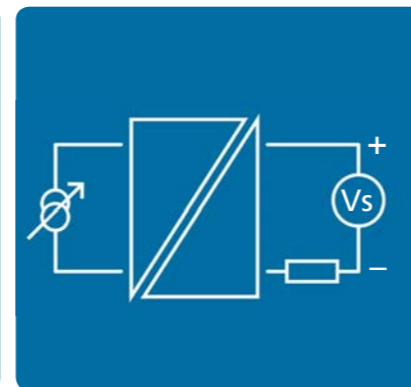
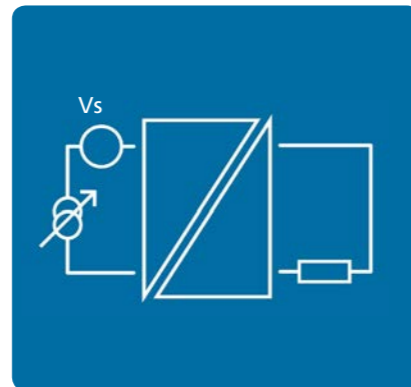
SEM 1020

Isolating current loop booster.



SEM 1200

Isolating current loop splitter.



	INPUT		OUTPUT		GENERAL	
	Type	Range	Type	Range	Parameter	Value
	(4 to 20) mA passive	(4 to 20) mA	(4 to 20) mA passive	(4 to 20) mA	Volt drop	Input 5.0 VDC typical
	2-wire (4 to 20) mA transmitter	(4 to 20) mA	(4 to 20) mA passive	(4 to 20) mA	Maximum loop supply	Input 35 VDC
	DC voltage	Any between (-10 to 100) VDC	(4 to 20) mA passive	(4 to 20) mA	Isolation	500 VDC
	(4 to 20) mA passive	(4 to 20) mA	(4 to 20) mA passive	(4 to 20) mA	Maximum load	Output 500 Ω
	(4 to 20) mA passive	(4 to 20) mA	(4 to 20) mA passive	(4 to 20) mA	Power supply	Input loop
	(4 to 20) mA passive	(4 to 20) mA	2 x 2-wire (4 to 20) mA passive	(4 to 20) mA	Ambient operating temperature	(0 to +70) °C
	N/A	(0 to +70) °C	Input and output 2.7 VDC	(0 to +70) °C	Width	12.5 mm
	Output 30 VDC	12.5 mm	Input and output 35 VDC	12.5 mm		
	500 VDC	12.5 mm	500 VDC	12.5 mm		
	N/A	12.5 mm	Output 1200 Ω	12.5 mm		
	Output loop	12.5 mm	Both loops	12.5 mm		
	(0 to +70) °C	12.5 mm	All loops	12.5 mm		
	12.5 mm	12.5 mm	(0 to +70) °C	12.5 mm		
	21 mm	12.5 mm	(0 to +70) °C	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.



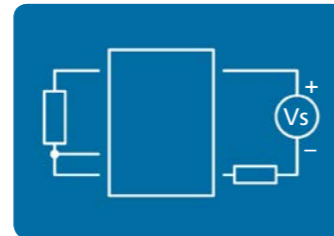
SEM 1801/2RX

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

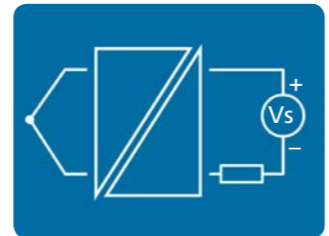


SEM 1801/2TCX

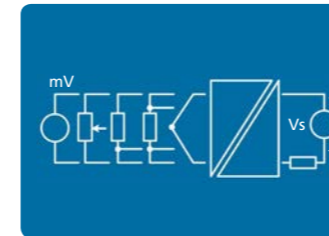
Thermocouple transmitter; PC configuration. IS-approved.



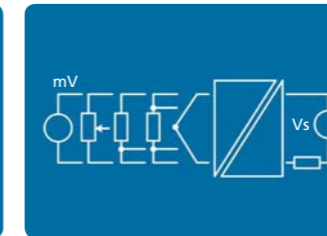
Single channel



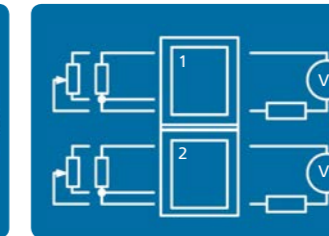
Single channel



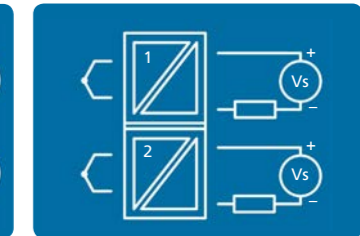
Dual input



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



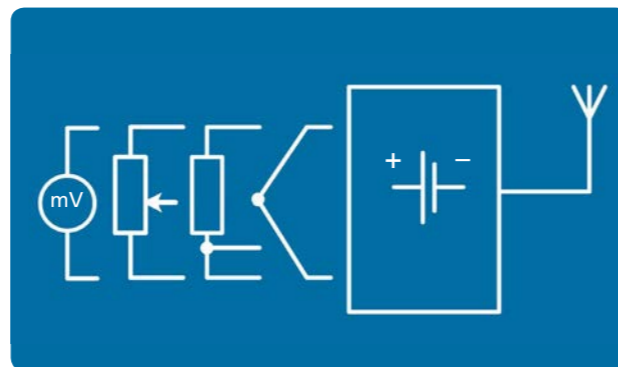
Universal head-mounted wireless transmitter



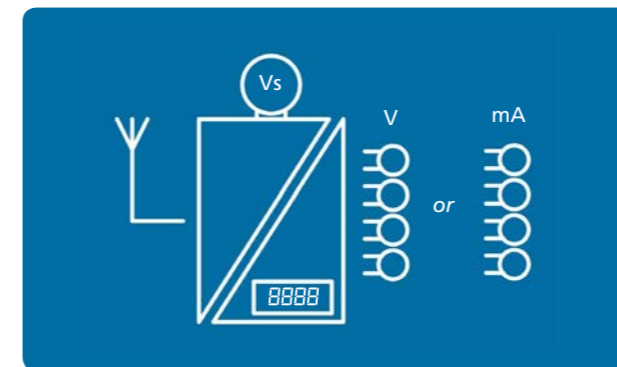
Wireless receiver for up to 16 x WTX700



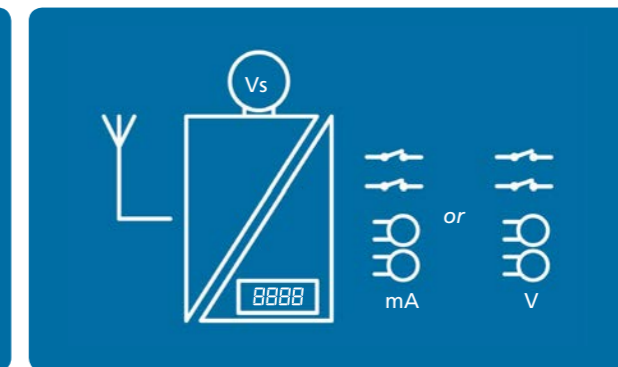
Wireless receiver for up to 16 x WTX700



Head mount in SCH4 or SCH11



DIN rail



DIN rail

INPUT
OUTPUT
GENERAL

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

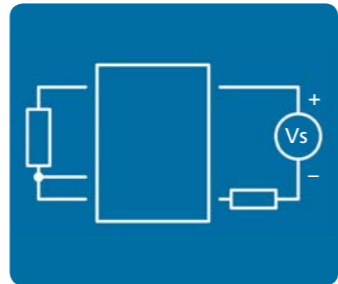
300 m line of sight
Links up to 16 x WTX700 transmitters
(-20 to +50) °C
(110 to 240) VAC or (20 to 30) VDC
PC / push-button configuration kit
22.5 mm

In-head transmitters



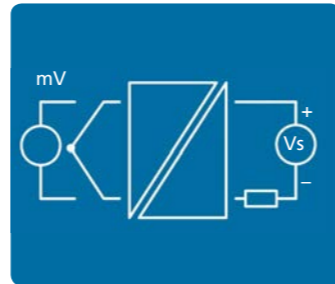
SEM 203P

Pt100 transmitter; push-button configuration.



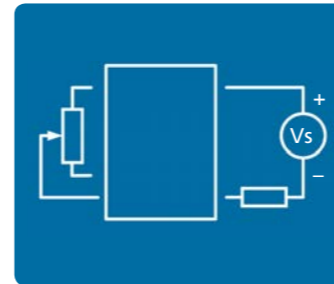
SEM 203TC

Thermocouple transmitter; push-button configuration.



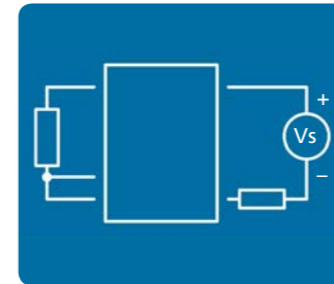
SEM 203W

Potentiometer transmitter; push-button configuration.



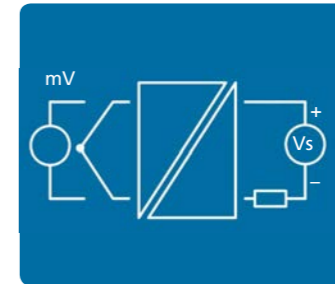
SEM 206P

Pt100 transmitter; PC configuration.



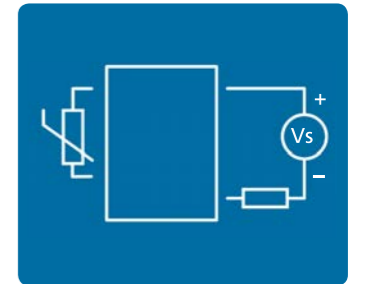
SEM 206TC

Thermocouple transmitter; PC configuration.



SEM 206TH

Thermistor transmitter; PC / push-button configuration.



INPUT	TYPE		
	Pt100	Yes - 2, 3 wire	
	Other RTD sensors	N/A	
	Resistance	N/A	
	Potentiometer	N/A	
	Thermocouple type	N/A	
	Voltage	N/A	
	Current	N/A	
	Thermistor	N/A	
	OUTPUT	(4 to 20) mA	
GENERAL		Isolation	
		N/A	Yes
		Custom linearisation	
		N/A	N/A
		Output zero/span alignment to input	
		Yes - push-button	Yes - push-button
		User offset	
		N/A	N/A
		Display	
	N/A	N/A	
Ambient operating			
(-40 to +85) °C	(-40 to +85) °C		
Power supply			
(10 to 30) VDC	(10 to 30) VDC		
Configuration			
Push-button	Push-button		
Width / diameter			
43 mm dia.	43 mm dia.		
APPROVALS	ATEX		
	N/A	N/A	
	IEC Ex		
	N/A	N/A	
Marine DNV standard			
Yes	Yes		
EMC			
EN BS 61326	EN BS 61326		

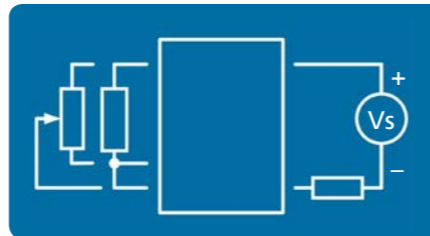
In-head		In-head	
Yes - 2, 3 wire	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	K, J, N, E, T, R, S	N/A	N/A
N/A	(-10 to +70) mV	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
(4 to 20) mA		(4 to 20) mA	
N/A	Yes	N/A	N/A
N/A	N/A	N/A	N/A
Yes - push-button	Yes - push-button	Yes - push-button	Yes - push-button
N/A	N/A	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
(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
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
Yes	Yes	Yes	N/A
EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

In-head		In-head		In-head		In-head	
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	N/A	N/A
1 kΩ to 100 kΩ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	K, J, N, E, T, R, S	N/A	N/A
N/A	N/A	N/A	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	N/A	N/A	N/A	Yes
(4 to 20) mA		(4 to 20) mA		(4 to 20) mA		(4 to 20) mA	
N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yes - push-button	N/A	N/A	N/A	N/A	N/A	Yes - push-button	Yes - push-button
N/A	Yes	N/A	Yes	N/A	Yes	N/A	N/A
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	(-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	(10 to 30) VDC
Push-button	Push-button	PC	PC	PC	PC	Push-button / 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.	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	N/A	N/A
N/A	Yes	N/A	Yes	N/A	Yes	N/A	N/A
EN BS 61326	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.



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



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

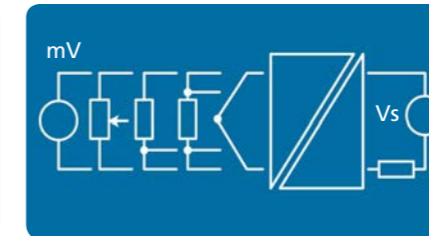
(4 to 20) mA

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



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

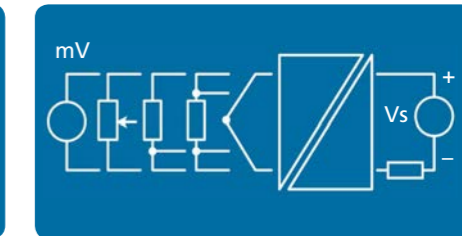
(4 to 20) mA

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

Yes
Yes
Yes
EN BS 61326



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

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



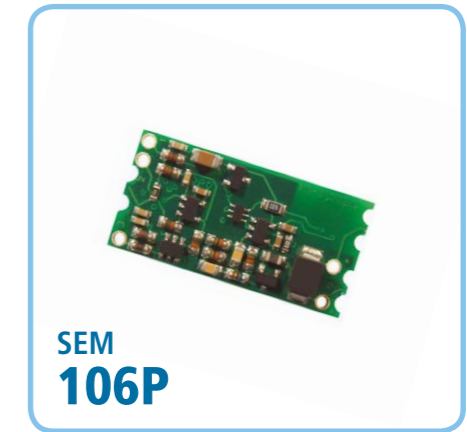
SEM 710
Head-mounted RTD, thermocouple transmitter with integrated display. PC configuration.



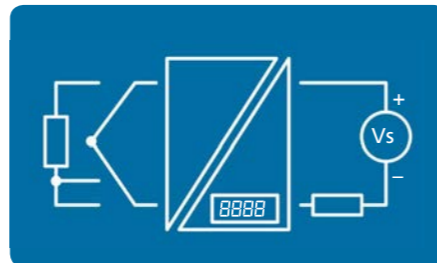
HTR 200/1
MA head-mounted RTD, potentiometer, resistance transmitter.



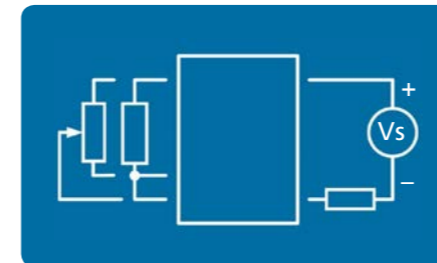
HTR 200/1V
MA head-mounted RTD, potentiometer, resistance transmitter with voltage output.



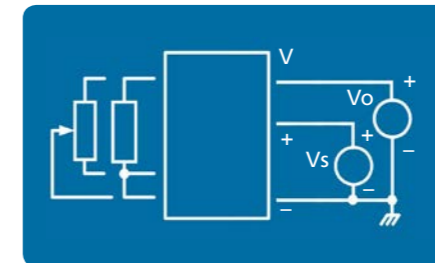
SEM 106P
OEM transmitter - build into your own device.



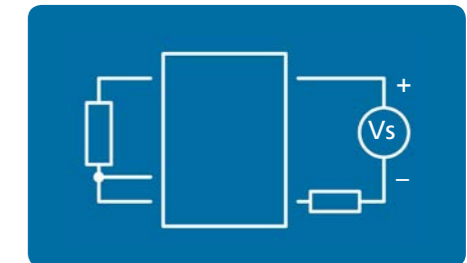
In-head (SCH4 or SCH15)



In-head



In-head



In-head

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 kΩ to 100 kΩ auto sense
- N/A
- N/A
- N/A
- Yes

- 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

- 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

GENERAL

- 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) °C
- (15 to 30) VDC
- PC / push-button trim
- (see data sheet)

- N/A
- Yes -resistance / potentiometer
- Yes
- Yes
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- PC
- (see data sheet)

- N/A
- Yes -resistance / potentiometer
- Yes
- Yes
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- PC
- (see data sheet)

- N/A
- N/A
- N/A
- Yes
- N/A
- (-40 to +85) °C
- (10 to 30) VDC
- PC
- 30 x 15 mm

APPROVALS

- 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

Field mounted displays

for use with temperature probes



DM 640P

LCD battery-powered Pt100 thermometer.



DM 640XP

ATEX-approved LCD battery-powered Pt100 thermometer.



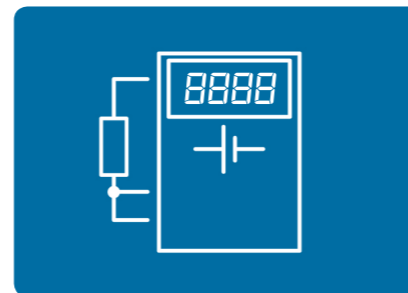
DM 640TC

LCD battery-powered thermocouple thermometer.

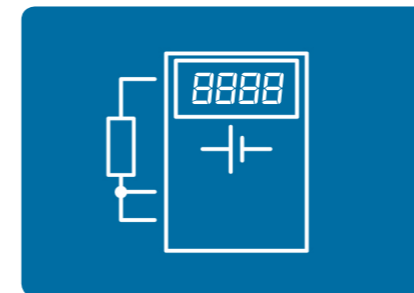


DM 640XTC

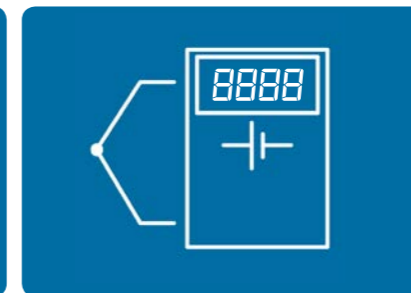
ATEX-approved LCD battery-powered thermocouple thermometer.



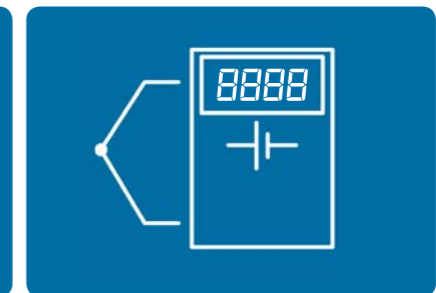
Sensor / surface mount



Sensor / surface mount



Sensor / surface mount



Sensor / surface mount

INPUT

Mechanical

Pt100

Thermocouple

Current

Voltage

Linearisation/offset

Yes

N/A

N/A

N/A

Offset

Yes

N/A

N/A

N/A

Offset

N/A

K, J, T, R, S, E, L, N

N/A

N/A

Offset

N/A

K, J, T, R, S, E, L, N

N/A

N/A

Offset

OUTPUT

Display

Max / min

4-digit LCD 8.5 mm

N/A

4-digit LCD 8.5 mm

N/A

4-digit LCD 8.5 mm

N/A

4-digit LCD 8.5 mm

N/A

GENERAL

Ambient operating

Power supply

Battery life

Enclosure

Environmental rating

Configuration

(-10 to +70) °C

Battery 3.6 V lithium

2 years typical

SCH4 / SCH15

IP67

Push-button

(-10 to +50) °C

Battery 3.6 V lithium

2 years typical

SCH4

IP67

Push-button

(-10 to +70) °C

Battery 3.6 V lithium

2 years typical

SCH4 / SCH15

IP67

Push-button

(-10 to +50) °C

Battery 3.6 V lithium

2 years typical

SCH4

IP67

Push-button

APPROVALS

ATEX

N/A

Yes

N/A

Yes

Field mounted displays

for use with temperature probes and current loops



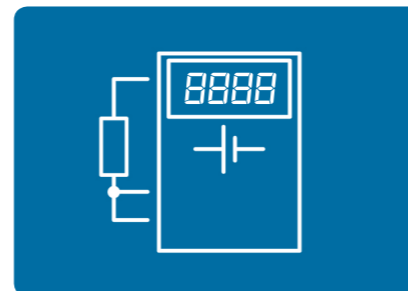
DM 660
Large digit LCD battery-powered Pt100 thermometer.



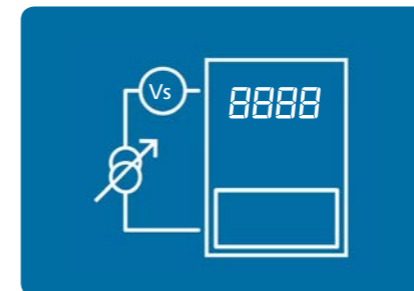
DM 700
(4 to 20) mA loop-powered LED process indicator.



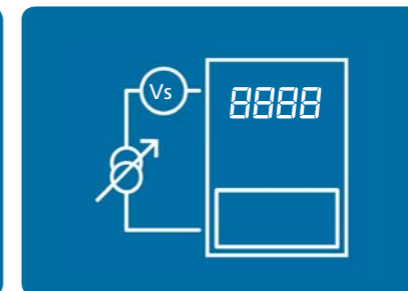
DM 700X
ATEX-approved (4 to 20) mA loop-powered LED process indicator.



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.

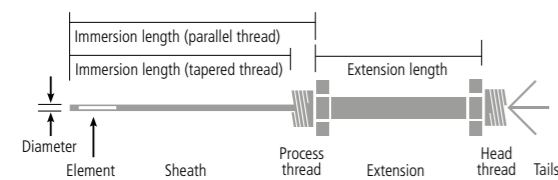
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

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

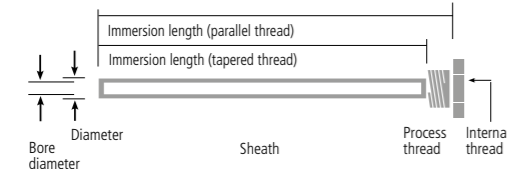
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

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



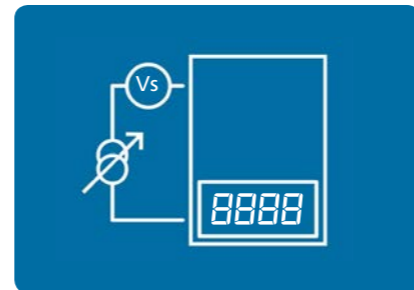
DM 3410
Pt100 / Thermocouple 4-digit panel meter with output options.



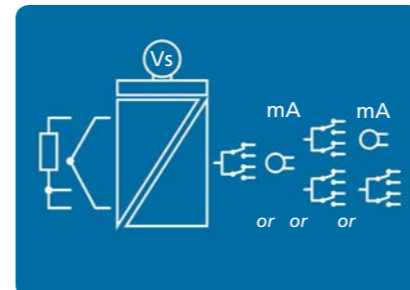
DM 3420
Current / voltage 4-digit panel meter with output options.



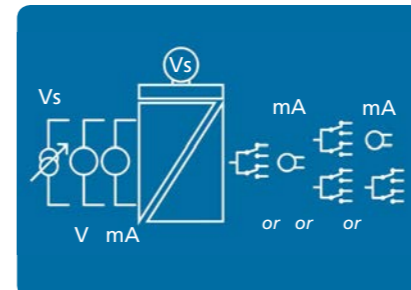
DM 3430
High-voltage / current true RMS 4-digit panel meter with output options.



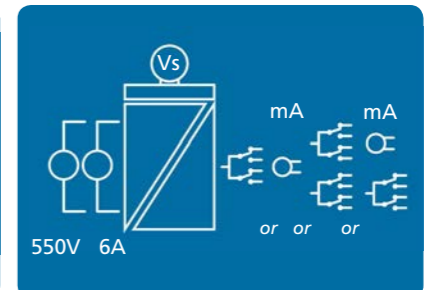
(48 x 24) mm panel mount



(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

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

OUTPUT

See datasheet for full details and specific output combinations

4-digit LED process display

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

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

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

GENERAL

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

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
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

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

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.



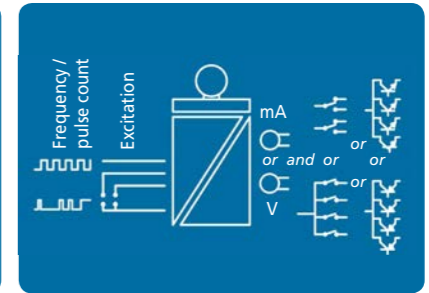
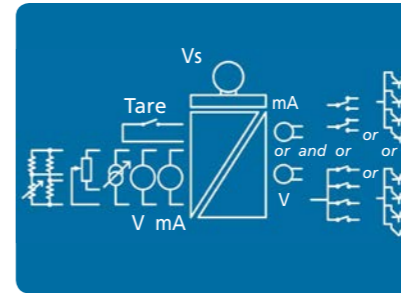
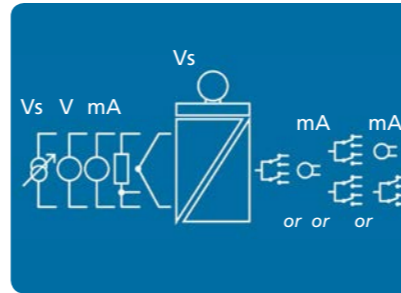
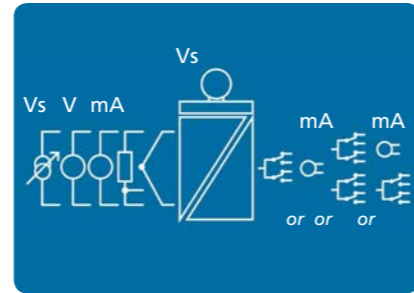
DM 3600A
6-digit universal panel meter with rate /totaliser.



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.



Mechanical

(96 x 48) mm panel mount

(96 x 48) mm panel mount

(96 x 48) mm panel mount

(96 x 48) mm panel mount

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

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

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

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

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

INPUT

OUTPUT

See datasheet for full details and specific output combinations

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

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

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

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

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

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
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
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

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

GENERAL

Humidity and temperature transmitters



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



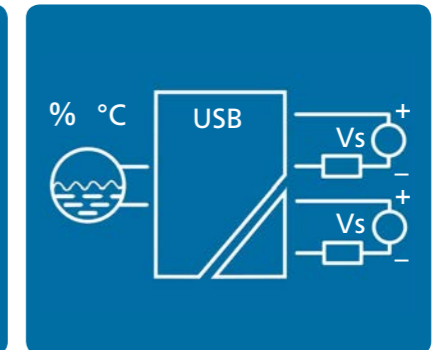
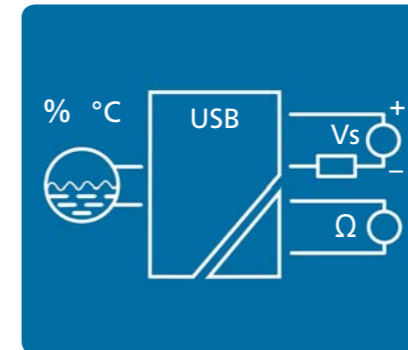
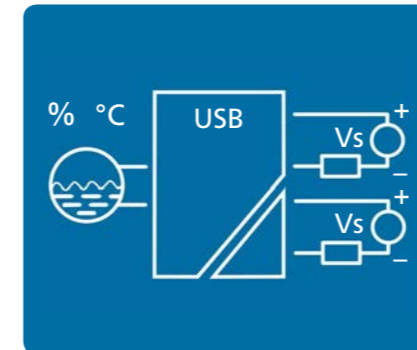
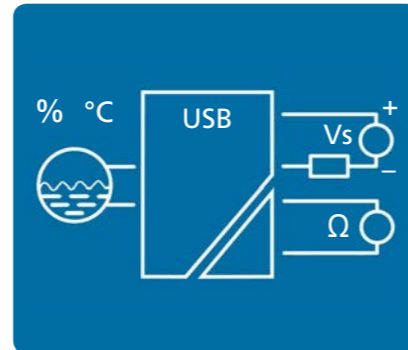
SEM 160 ID/HP
Cost-effective dual-channel duct-mounted humidity / temperature transmitter.



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

(-30 to +100) °C

Humidity (RH)

(10 to 90) %

BASE ACCURACY

Temperature

±0.5 °C

Humidity (RH)

±3% RH

OUTPUT

Output channels

1 x (4 to 20) mA

Output choices: Temperature

Programmable

Humidity

Default

Dewpoint

Programmable

ΔTd - difference between dewpoint temperature and temperature

Programmable

Direct thermistor option

Yes

GENERAL

Sensor length

120, 250 mm

Configuration

PC

Power supply

(10 to 30) VDC

Ambient operating (electronics, not sensor)

(-20 to +70) °C

Encapsulated electronics

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.

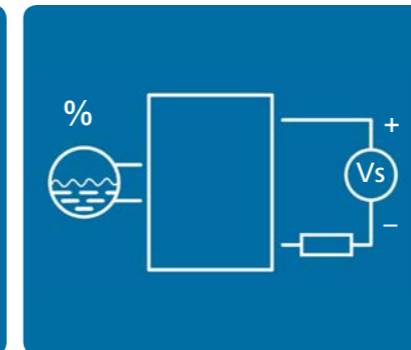
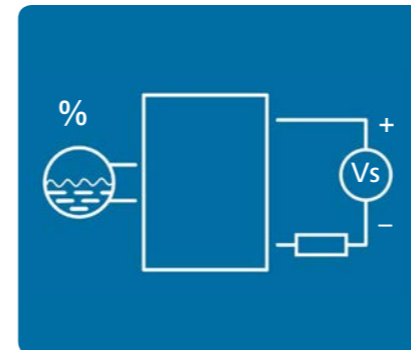
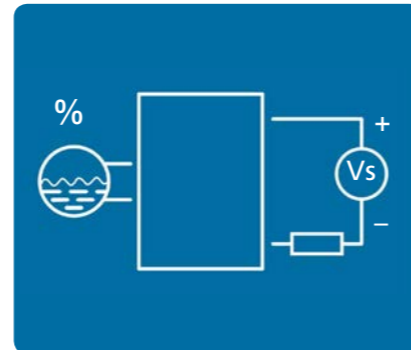


SEM 161 D/H
Single-channel duct-mounted humidity transmitter.



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

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



INPUT

Temperature range

(-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

Direct thermistor option

N/A

N/A

Yes

GENERAL

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



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

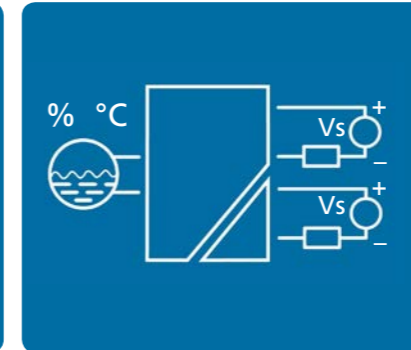
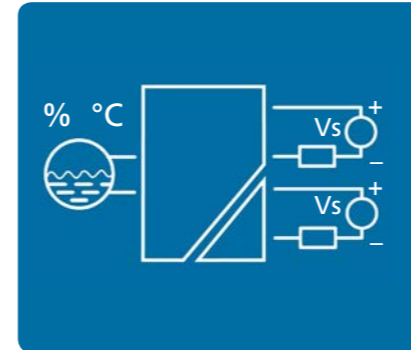
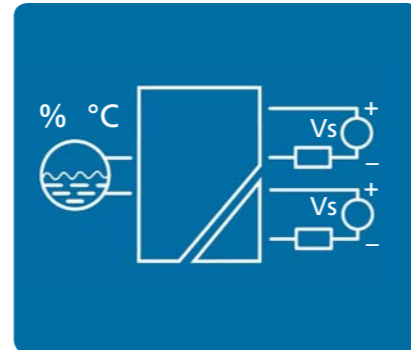


SEM 162 D/HP
Dual-channel duct-mounted temperature / humidity transmitter.



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

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



INPUT

Temperature range

(-30 to +100) °C

Humidity (RH)

(10 to 90) %

BASE ACCURACY

Temperature

±0.5 °C

Humidity (RH)

±2% RH

OUTPUT

Output channels

2 x (4 to 20) mA

Output choices: Temperature

Default

Humidity

Default

Dewpoint

Programmable

ΔTd - difference between dewpoint temperature and temperature

Programmable

Direct thermistor option

N/A

GENERAL

Plug-in sensor

Yes

Cable / sensor length

120 mm

Display option

Yes

Configuration

PC

Power supply

(10 to 30) VDC *

Ambient operating (electronics, not sensor)

(-30 to +85) °C

Encapsulated electronics

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.



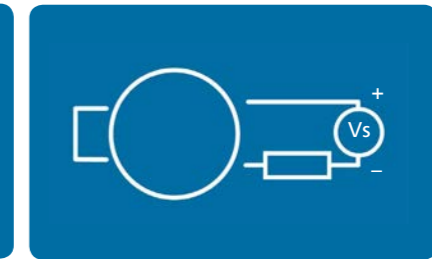
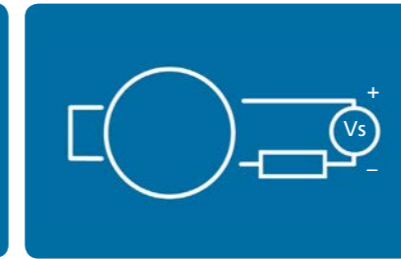
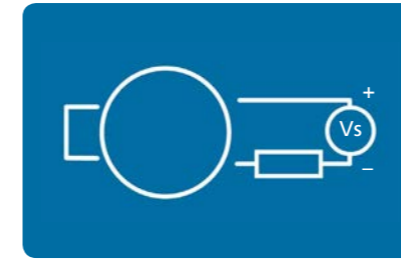
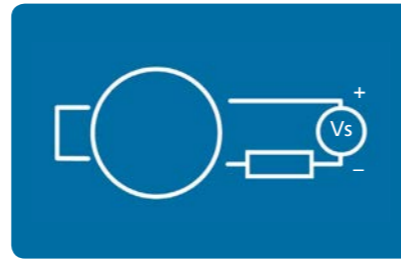
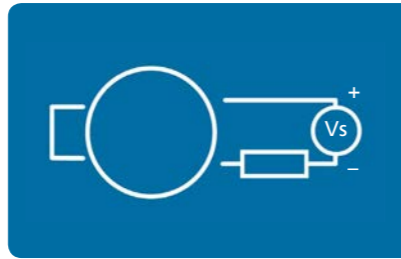
PTX 20

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

(> 2 to 700) Bar
 (-1 to 1) Bar

(> 50 to 2000) mBar
 N/A

Type
Gauge
Absolute
Sealed gauge

Yes
 Yes
 Yes

Yes
 N/A
 N/A

OUTPUT

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

Yes
 Yes (optional)

Yes
 Yes (optional)

GENERAL

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

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

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

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
 N/A

Yes
 Yes
 Yes
 Yes
 Yes
 N/A

APPROVALS

ATEX

N/A

N/A

(>0.1 to 1000) Bar
 N/A

Yes
 Yes
 N/A

Yes
 Yes (optional)

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

Yes
 Yes
 Yes
 Yes
 Yes
 N/A

Yes

(>1 to 250) mH2O
 N/A

Yes
 Yes
 N/A

Yes
 N/A

≤ ±0.25% FS
 (-5 to +80) °C
 (-5 to +80) °C
 316 stainless steel
 303 stainless steel
 Viton
 1m PUR

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

Yes

(>1 to 250) mH2O
 N/A

Yes
 Yes
 N/A

Yes
 N/A

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

Yes
 Yes
 Yes
 Yes
 Yes
 Standard open, in titanium

Yes

Infra-red sensors



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



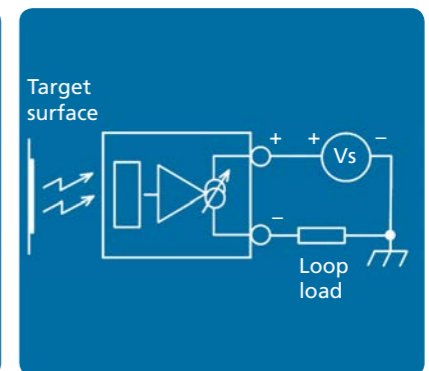
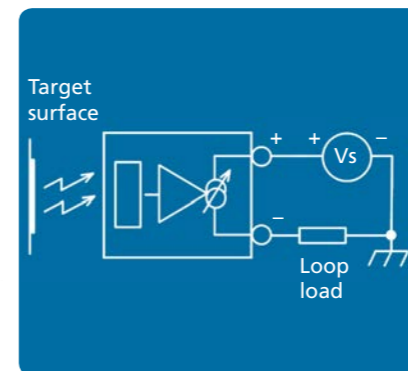
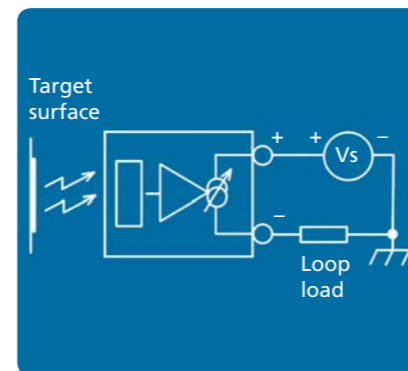
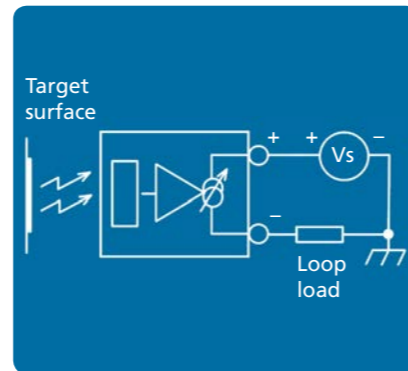
Non-contact infra-red sensor with 15:1 divergent optics.



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

BASE ACCURACY

Measurement accuracy

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

OUTPUT

Output, loop-powered

(4 to 20) mA

GENERAL

Standard cable length

1m

Emissivity

Fixed at 0.95

Power supply

(6 to 28) VDC

Ambient operating (electronics, not sensor)

(0 to +70) °C

IP rating

65

Body material

Stainless steel

Lens material

Glass

Dimensions

18mm dia. x 103mm length

Thread mount

M16 x 1mm

(-20 to +500) °C

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

(4 to 20) mA

1m

Fixed at 0.95

(6 to 28) VDC

(0 to +70) °C

65

Stainless steel

Glass

18mm dia. x 103mm length

M16 x 1mm

(-20 to +250) °C

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

(4 to 20) mA

1m

Fixed at 0.95

(6 to 28) VDC

(0 to +70) °C

65

Stainless steel

Glass

18mm dia. x 103mm length

M16 x 1mm

(-20 to +250) °C

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

(4 to 20) mA

1m

Fixed at 0.95

(6 to 28) VDC

(0 to +70) °C

65

Stainless steel

Glass

18mm dia. x 103mm length

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