

## PRODUCT GUIDE

## **Fluidic Limited**

Glasgow: 0141 641 5920 Warrington: 01925 572401

www.fluidic-ltd.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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# Contents

## 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.

Signal conditioning

**Rail-mounted trans** 

Wireless transmitte

In-head transmitter

**Temperature transm** 

**Field-mounted disp** 

**Probe assemblies** 

**Panel meters** 

**Humidity and temp** 

**Pressure transmitte** 

Infra-red sensors

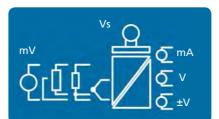
Legacy products

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# Signal conditioning



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



Yes Yes

N/A N/A

N/A

N/A

(10 to 10,500) Ω

10  $\Omega$  to 100  $k\Omega$  auto sense

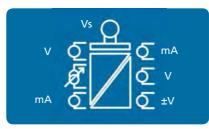
K, J, N, E, T, R, S, L, U, B,

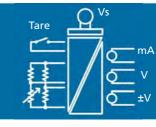
C(W5), D(W3), G(W)

(-100 to +200) mV



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





SEM

**1600B** 

active / passive mA or

voltage output.

N/A	N/A
N/A	N/A
(-50 to +50) VDC	N/A
(-50 to +50) mA (active / passive)	N/A
N/A	N/A
N/A	N/A
N/A	Yes - 4-wire

mA - active / passive	mA - active / passive
Voltage	Voltage
Bi-polar voltage	Bi-polar voltage
Yes	Yes
Yes	Yes - push-button
N/A	Yes - tare
Yes	Yes
N/A	Tare
(-30 to +70) °C	(-30 to +70) °C
Universal, (10 to 48) VDC	Universal, (10 to 48) VDC
and (10 to 32) VAC	and (10 to 32) VAC
Yes - input and output	Yes - output
N/A	Yes
PC	PC
N/A	N/A
Flow formulae	N/A
17.5 mm	17.5 mm

# INPUT

Pt100

**RTD other types** 

Potentiometer

Thermocouple

Resistance

Voltage

Current

Frequency

**Pulse counter** Load cell

See datasheet for full details and specific output combinations

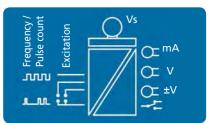
OUTPUI

Isolation	Yes
Output zero/span alignment to input	Yes
User offset	Yes
User linearisation	Yes - resistance / potentiometer / mV
Remote reset	N/A
Ambient operating	(-30 to +70) °C
Power supply	Universal, (10 to 48) VDC and (10 to 32) VAC
Loop power supply	Yes - output
Sensor excitation	N/A
Configuration	PC
Totalise	N/A
Maths functions	N/A
Width	17.5 mm





Load cell input signal conditioner with Dual inputs, frequency and pulse counter. Active / passive mA or voltage and relay output.



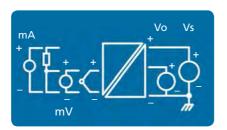
N/A
N/A
N/A
N/A
N/A
N/A
N/A
0.01 Hz to 65 kHz
Yes
N/A

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



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



Yes N/A

N/A

N/A

N/A

N/A

N/A

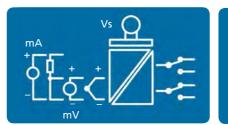
K, J, N, E, T, R, S

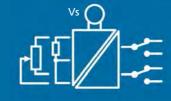
(-10 to +75) mV (-10 to +25) mA Passive





RTD, thermocouple, passive mA,RTD, potentiometer, resistance inputmV input, 2 change over relay outputs.with 2 change over relay outputs.





Yes	Yes
N/A	Yes
N/A	(10 to 10,500) Ω
N/A	10 $\Omega$ to 100 k $\Omega$ auto sense
K, J, N, E, T, R, S	N/A
(-10 to +75) mV	N/A
(-10 to +25) mA Passive	N/A
N/A	N/A
N/A	N/A
N/A	N/A

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

# INPUT

Pt100

**RTD other types** 

Potentiometer

Thermocouple

Resistance

Voltage

Current

Frequency

Pulse counter Load cell

See datasheet for full details and specific output combinations

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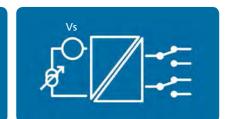
Isolation	Yes
Output zero/span alignment to input	Yes
User offset	N/A
User linearisation	N/A
Remote reset	N/A
Ambient operating	(-30 to +70) °C
Power supply	(15 to 28) VDC
Loop power supply	N/A
Sensor excitation	N/A
Configuration	PC
Totalise	N/A
Maths functions	N/A
Width	17.5 mm

<u> </u>





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



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

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

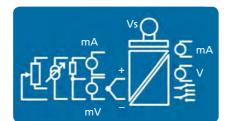
Yes - relays
N/A
N/A
Yes
N/A
(-30 to +70) °C
(4 to 20) mA loop
N/A
N/A N/A
N/A
N/A PC
N/A PC N/A

7

# Signal conditioning



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



### Single channel

Pt100	Yes
RTD other types	N/A
Resistance	(20 to 400) Ω
Potentiometer	> 1 kΩ
Thermocouple	K, J, N, E, T, R, S, L, U, B, C, D, G
Voltage	$\pm$ 50 mV, $\pm$ 200 mV, $\pm$ 1 V, $\pm$ 10 V
Current	$\pm$ 30 mA (active or passive)
Frequency	N/A
Pulse Counter	N/A
Load Cell	N/A

See datasheet for full details and specific output combinations

TYPE

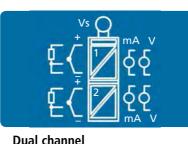
# GENERAL

OUTPUT

Isolation	Yes
Output zero/span alignment to input	Yes - push-button
User offset	N/A
User linearisation	N/A
Remote reset	N/A
Ambient operating	(-30 to +70) °C
Power supply	Universal, (22 to 300) VDC and (24 to 250) VAC
Loop power supply	Input and output
Sensor excitation	Yes - mA loop
Configuration	PC - push-button
Totalise	N/A
Maths functions	N/A
Width	22 mm



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



SEM

1750

Dual-channel mA / voltage

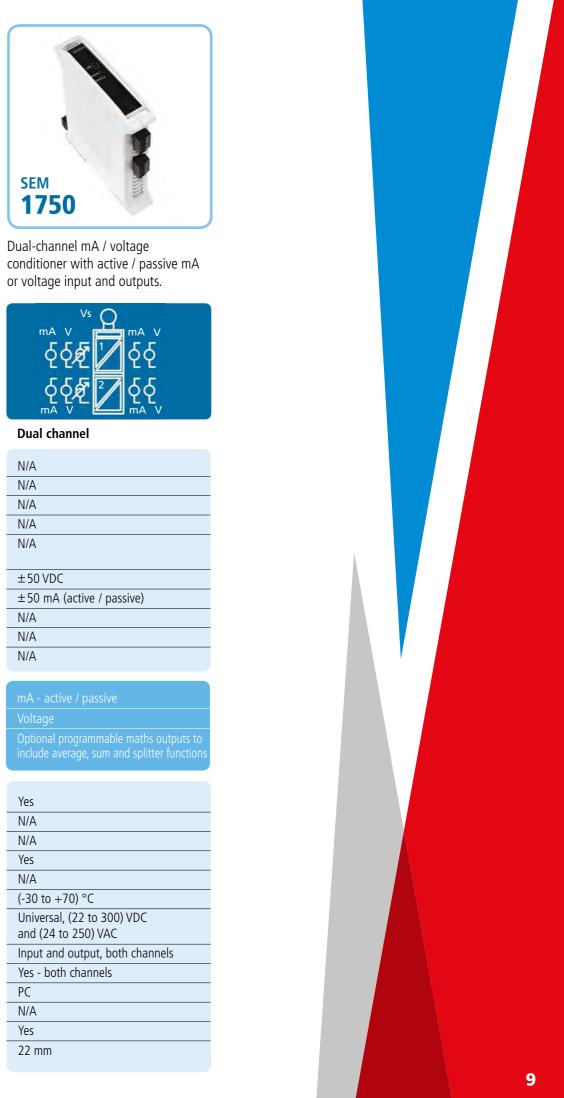
or voltage input and outputs.

Dual channel	Dual channel
Yes	N/A
Yes	N/A
N/A	N/A
10 $\Omega$ to 100 $k\Omega$ auto sense	N/A
K, J, N, E, T, R, S, L, U, B, C, D, G	N/A
N/A	±50 VDC
N/A	±50 mA (active / passive)
N/A	N/A
N/A	N/A
N/A	N/A

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

Yes	Yes
N/A	N/A
Yes	N/A
Yes	Yes
N/A	N/A
(-30 to +70) °C	(-30 to +70) °C
Universal, (22 to 300) VDC	Universal, (22 to 300) VDC
and (24 to 250) VAC	and (24 to 250) VAC
Output, both channels	Input and output, both channels
Yes - both channels	Yes - both channels
PC / DIP switch - pre-set ranges	PC
N/A	N/A
Yes	Yes
22 mm	22 mm

# INPUT



# Signal conditioning



(4 to 20) mA current loop isolator.



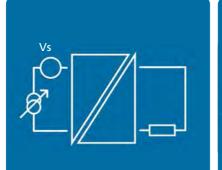
Provides isolated power for a transmitter derived from a powered loop.

SEM 1015

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



Isolating current loop booster.



_	
8	Vs

	ø	

N/A

Output loop

(0 to +70) °C

21 mm

Ø	(v) 

Туре	(4 to 20) mA passive	2-wire (4 to 20) mA transmitter
Range	(4 to 20) mA	(4 to 20) mA
	(4 to 20) mA passive	(4 to 20) mA passive
Volt drop	Input 5.0 VDC typical	Output 5.0 VDC typical
Maximum loop supply	Input 35 VDC	Output 35 VDC
Isolation	500 VDC	500 VDC

Output 500  $\Omega$ 

(0 to +70) °C

Input loop

12.5 mm

DC voltage	(4 to 20) mA passive
Any between (-10 to 100) VDC	(4 to 20) mA
(4 to 20) mA passive	(4 to 20) mA passive
N/A	Input and output 2.7 VDC
Output 30 VDC	Input and output 35 VDC
500 VDC	500 VDC
N/A	Output 1200 Ω
Output loop	Both loops
(0 to +70) °C	(0 to +70) °C
12.5 mm	12.5 mm

INPUT

OUTPUT

GENERAL

Maximum load

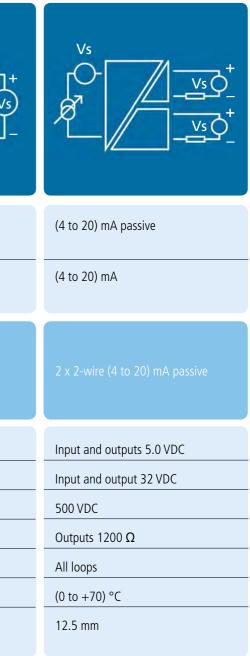
Power supply

Width

Ambient operating temperature



Isolating current loop splitter.



## **Rail-mounted** transmitters



(Vs)

Pt100 transmitter; PC configuration.

Single channel



Thermocouple transmitter; PC configuration.

Single channel

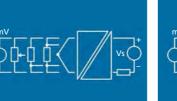


RTD, thermocouple, potentiometer, resistance, mV transmitter; PC configuration.



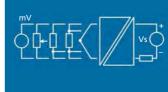
thermocouple, potentiometer, resistance, mV transmitter; PC configuration.

IS-approved.



### Dual input

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



### Dual input

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

(4 to 20) mA	(4 to 20) mA HART	(4 to
Yes	Yes	N/A
Yes	Yes	Yes -
Yes	Yes	Yes
Yes	Yes	Yes
(-30 to +70) °C	(-30 to +70) °C	(-30
(10 to 30) VDC	(10 to 30) VDC	(10 t
РС	PC - HART configurator	PC
17.5 mm	17.5 mm	22 m

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

## TYPE

Pt100	Yes - 2, 3 wire	N/A
Other RTD sensors	Yes	N/A
Resistance	N/A	N/A
Potentiometer	N/A	N/A
Thermocouple type	N/A	K, J, N, E, T, R, S, L, U, B, C, D, G
Voltage	N/A	N/A
Current	N/A	N/A
	(4 to 20) mA	(4 to 20) mA
Isolation	N/A	Yes
Custom linearisation	N/A	N/A
Output zero/span alignment to input	Yes	Yes
User offset	Yes	Yes
Ambient operating	(-30 to +70) °C	(-30 to +70) °C
Power supply	(10 to 30) VDC	(10 to 30) VDC
Configuration	РС	РС
Width	17.5 mm	17.5 mm

APPROVALS ATEX IEC Ex EMC

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

GENERAL

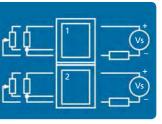
INPUT



transmitter; PC configuration.



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



## Single or dual channel

-	2,	3	wire
-	2,	3	wire

C		
C	2	

### Single or dual channel

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

- resistance / potentio

) to +70) °C to 30) VDC

mm

	N/A
ometer	Yes
	Yes
	Yes
	(-30 to +70) °C
	(10 to 30) VDC

PC

22 mm

Yes Yes

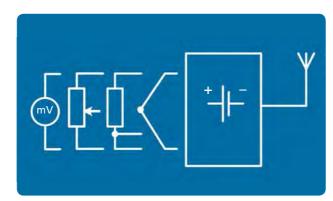
EN BS 61326

61326

# Wireless transmitters



Universal head-mounted wireless transmitter



### Head mount in SCH4 or SCH11

Pt100	Yes
RTD options	Yes
Potentiometer	Up to 10 k $\Omega$ autosense
Thermocouple	J, K, T, L, U, E, N, S, R, B, C, D
Voltage	(0 to 50) mV
Custom linearisation	Yes - set on receiver
User offset	Yes - set on receiver
Measurement data on ISM band 868.4MHz	Yes - transmit

# INPUT

TYPE

# OUTPUT

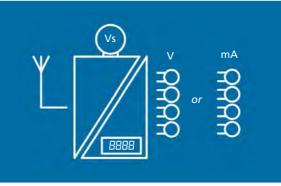
# GENERAL

Communication	N/A
Transmit / receive range	300 m line of sight
Transmitter / receiver links	Links to any number of receivers
Ambient operating	(-30 to +70) °C
Power supply	Battery 3.6V lithium
Configuration with programming module	Configuration kit
Width	(see data sheet)



Wireless receiver for up to 16 x WTX700

WTR



DIN rail

### DIN rail

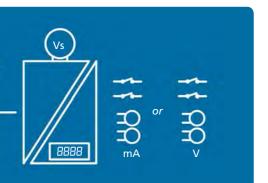
From radio signal	From radio signal
From radio signal	From radio signal
From radio signal	From radio signal
From radio signal	From radio signal
From radio signal	From radio signal
From radio signal	From radio signal
Yes - potentiometer / mV range	Yes - potentiometer / mV range
Yes - receive	Yes - receive

4 x current - active / passive <b>or</b> voltage	2 x current -
	2 off (250 VA
RS485 Modbus for up to 16 x WTX700	RS485 Modb
300 m line of sight	300 m line o
Links up to 16 x WTX700 transmitters	Links up to 1
(-20 to +50) °C	(-20 to +50)
(110 to 240) VAC or (20 to 30) VDC	(110 to 240)
PC / push-button configuration kit	PC / push-bu
22.5 mm	22.5 mm

14



Wireless receiver for up to 16 x WTX700



of sight

16 x WTX700 transmitters

) °C

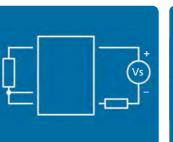
0) VAC or (20 to 30) VDC

outton configuration kit

## In-head transmitters

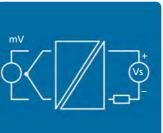


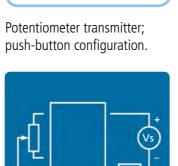
Pt100 transmitter; push-button configuration.





Thermocouple transmitter; push-button configuration.





STATUS

SEM203W

SEM

**203W** 



Pt100 transmitter; PC configuration.

Vs

TYPE

## Pt100 **Other RTD sensors** Resistance Potentiometer Thermocouple type Voltage Current Thermistor

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	(-10 to +70) m
 N/A N/A	N/A N/A

	(4 to 20) mA	(4 to 20) mA
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.
ATEX	N/A	N/A
IEC Ex	N/A	N/A

Yes

EN BS 61326

Yes

EN BS 61326

### In-head In-head N/A Yes - 2, 3 wire 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

(4 to 20) mA	(4 to 20) mA	(4 to 20) mA
N/A   N/A   Yes - push-button   N/A   N/A   (-40 to +85) °C   (10 to 30) VDC   Push-button	N/A   N/A   Yes   N/A   (-40 to +85) °C   (10 to 30) VDC   PC	Yes N/A N/A Yes N/A (-40 to +85) °C (10 to 30) VDC PC
43 mm dia. N/A N/A N/A EN BS 61326	43 mm dia. N/A N/A Yes EN BS 61326	43 mm dia. N/A N/A Yes EN BS 61326

# INPUT

OUTPUT

**APPROVALS** 

EMC

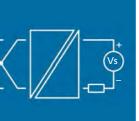
**Marine DNV standard** 



PC configuration.



Thermistor transmitter; PC / push-button configuration.



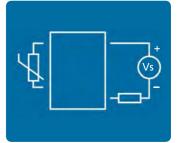
### In-head

N/A

N/A

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

(-10 to +70) mV



### In-head

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

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

N/A N/A

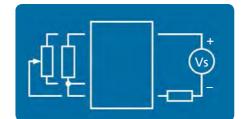
EN BS 61326

## In-head transmitters





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

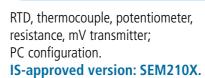


Yes - 2, 3 wire
 Yes - 2, 3 wire
(10 to 10,500) Ω
 1 k $\Omega$ to 100 k $\Omega$ auto sense
N/A
N/A
N/A
Yes





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



SEM

mV

**210** MKII

K, J, N, E, T, R, S, L, U, B, C, D, G

In-head

N/A

N/A N/A

N/A

N/A

N/A

custom

(-100 to +200) mV

### In-head, dual input

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

(4 to 20) mA	(4 to 20) mA
Yes	Yes
Yes - mV	Yes
Yes	Yes
Yes	Yes
N/A	N/A
(-40 to +85) °C	(-40 to +85) °C
(10 to 30) VDC	(10 to 30) VDC
PC	РС
43 mm dia.	44 mm dia.
Yes	Yes
Yes	Yes
Yes	Yes
EN BS 61326	EN BS 61326

# INPUT

TYPE

Pt100

## Resistance Potentiometer Thermocouple type Voltage Current

Thermistor

**Other RTD sensors** 

# OUTPUT

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

# **APPROVALS**

ATEX

IEC Ex
Marine DNV standard
EMC

In-head

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

4	0	
	•	



SEM







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 k $\Omega$ to 100 k $\Omega$ auto sense
K, J, N, E, T, R, S, L, U, B, C, D, G custom
(-1000 to +1000) mV
N/A
N/A

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

Y	e	

Yes Yes

EN BS 61326

## Temperature transmitters

## **Other packages**



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



### In-head (SCH4 or SCH15)

Yes N/A

N/A N/A

N/A

N/A

N/A

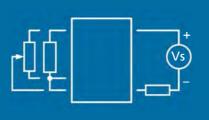
EN BS 61326

4-digit LED (9mm) (-20 to +70) °C (15 to 30) VDC PC / push-button trim (see data sheet)

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



MA head-mounted RTD, potentiometer, resistance transmitter.



In-head

Yes - 2, 3 wire Yes - 2, 3 wire

(10 to 10,500) Ω

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

(4 to 20) mA	3-wire programmable voltage o
N/A	N/A
Yes -resistance / potentiometer	Yes -resistance / potentiometer
Yes	Yes
Yes	Yes
N/A	N/A
(-40 to +85) °C	(-40 to +85) °C
(10 to 30) VDC	(10 to 30) VDC
РС	РС
(see data sheet)	(see data sheet)
N/A	N/A
N/A	N/A
N/A	N/A

N/A	
N/A	
N/A	

EN BS 61326

1 k $\Omega$ to 100 k $\Omega$ auto sense	1 k <b>Ω to</b> 100
N/A	N/A
N/A	N/A
N/A	N/A
Yes	Yes
(4 to 20) mA	3-wire progra
N/A	N/A
Yes -resistance / potentiometer	Yes -resistance
Yes	Yes
Voc	Voc

ĘĘ[
In-head

HTR

200/1V

voltage output.

resistance transmitter with

## Voltage Current Thermistor

OUTPUT

Custom line	arisation	
Output zero	/span alignment to input	
User offset		
Display		
Ambient op	erating	
Power supp	ly	
Configurati	on	
Dimensions		

# **APPROVALS** ATEX

IEC Ex			
Marine	NV stan	dard	
EMC			

**Other RTD sensors** Resistance INPUT Potentiometer Thermocouple type

TYPE

Pt100

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

EN BS 61326

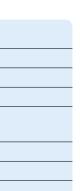


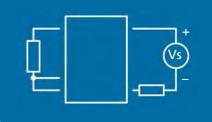




OEM transmitter - build into your own device.







## In-head

Yes - 2, 3 wire
N/A

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

## N/A

N/A N/A

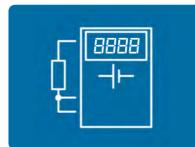
EN BS 61326

# **Field mounted** displays

for use with temperature probes



LCD battery-powered Pt100 thermometer.



Sensor / surface mount



INPUT

OUTPUT

GENERAL

**APPROVALS** 

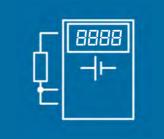
Pt100	Yes
Thermocouple	N/A
Current	N/A
Voltage	N/A
Linearisation / offset	Offset

Display	4-digit LCD 8.5 mm
Max / min	N/A
Ambient operating	(-10 to +70) °C
Power supply	Battery 3.6 V lithium
Battery life	2 years typical
Enclosure	SCH4 / SCH15
Environmental rating	IP67
Configuration	Push-button

DM 640XP

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

<sup>DM</sup> 640TC



Pt100 thermometer.



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

4-digit LCD 8.5 mm	4-digit LCD 8.5 mm
N/A	N/A
(-10 to +50) °C	(-10 to +70) °C
Battery 3.6 V lithium	Battery 3.6 V lithium
2 years typical	2 years typical
SCH4	SCH4 / SCH15
IP67	IP67
Push-button	Push-button

ATEX

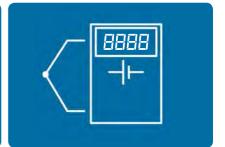
N/A

N/A

Yes



ATEX-approved LCD battery-powered thermocouple thermometer.



## Sensor / surface mount

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

(-10 to +50) °C

Battery 3.6 V lithium

2 years typical

SCH4

IP67

Push-button

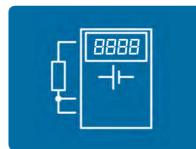
Yes

# **Field mounted** displays

for use with temperature probes and current loops



Large digit LCD battery-powered Pt100 thermometer.



Sensor / surface / panel mount



Pt100	Yes
Thermocouple	N/A
Current	N/A
Voltage	N/A
Linearisation / offset	N/A

Display	
Max / min	

Ambient operating

**Environmental rating** 

Power supply

**Battery life** 

Enclosure

Configuration

APPROVALS

Yes
(-10 to +50) °C
Battery 3.6 V lithium
2 years typical
Stainless steel 100mm dia.
IP65
N/A

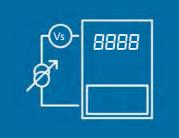
N/A



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

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

DM 700X



8888 -(Vs

Sensor / surface mount	Sensor / surface mount
N/A	N/A
N/A	N/A
(4 to 20) mA loop (passive)	(4 to 20) mA loop (passive)
N/A	N/A
Both	Both

4-digit LED 7 mm	4-digit LED 7 mm
N/A	N/A
(-20 to +75) °C	(-20 to +75) °C
(4 to 20) mA loop	(4 to 20) mA loop
N/A	N/A
SCH4 / SCH15	SCH4
IP67	IP67
Push-button	Push-button

ATEX

N/A

Yes







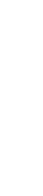


















## **Probe assemblies**

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

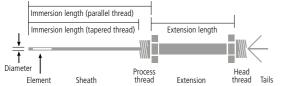
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

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

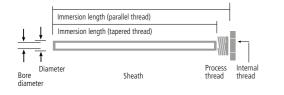
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

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





Heads



DM 660

DM 710

Loop-powered

transmitter with

display - see page 20

**Connection blocks** 

Battery-powered

range - see page 24











**Compression glands** 







Style 6



# **Panel meters**



Loop-powered panel meter

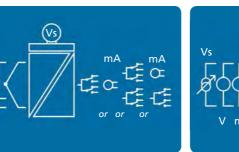
8



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



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



(96 x 48) mm panel mount

### (96 x 48) mm panel mount

Yes	N/A
K, J, T, R, S, E, L, N. B	N/A
N/A	Yes (active or passive)
N/A	(0 to 1) (1 to 5) (0 to 10) VDC
N/A	N/A
N/A	N/A
N/A	Yes

2 x relay (250 VAC @ 5 A) POD	2 x relay (250 VAC @ 5 A) POD
Current (active or passive) POD	Current (active or passive) POD
4-digit LED process display	4-digit LED process display
Yes	Yes
4-digit LED 14.2 mm	4-digit LED 14.2 mm
(-30 to +60) °C	(-30 to +60) °C
(20 to 35) VDC <b>or</b>	(20 to 35) VDC or
(90 to 253) VAC	(90 to 253) VAC
Output (option)	Input, output (option)
N/A	N/A
Push-button	Push-button
N/A	Yes
N/A	N/A
N/A	N/A



See datasheet for full details and specific output combinations

Thermocouple	
Current	
Voltage	
Frequency / pulse	
Remote digital inputs	

INPUT

**OUTPU** 

GENERAL

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

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

(48 x 24) mm panel mount

8888

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



DM 3430

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



mΑ

550V

## (96 x 48) mm panel mount

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

Yes
4-digi

it 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**



6-digit universal panel meter.

Vs V mA



6-digit universal panel meter with rate /totaliser.

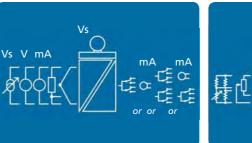
(96 x 48) mm panel mount

Option

Yes - with comms



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



(96 x 48) mm panel mount

Output (option)

N/A

Yes	Yes
K, J, T, R, S, E, L, N. B	К, Ј, Т
Yes (active or passive)	Yes (active or passive)
±100 mV, ±1 VDC, ±10 VDC	±10 VDC
N/A	N/A
Yes - with comms	Yes
Yes	Yes
2 x relay (250 VAC @ 5 A) POD	2 x relay (250 VAC @ 8 A) option
Current (active or passive) POD	4 x relay (250 VAC @ 5 A) option
RS485 Modbus (RJ45)	Current (active or passive)
6-digit LED process display	RS485 Modbus option
	NPN / PNP logic option
	5-digit LED process display
Yes	Yes
6-digit LED 14.2 mm	5-digit LED 14.2 mm multi-colour
(-30 to +60) °C	(-10 to +60) °C
(20 to 35) VDC <b>or</b>	(10.5 to 70) VDC and (22 to 53) VAC or
(90 to 253) VAC	(85 to 265) VAC and (100 to 300) VDC
Input, output (option)	Input, output (option)
N/A	Yes - load cell
Push-button / comms option	Push-button / comms option
Rate / total	Yes, and tare

## Mechanical

See datasheet for full details and specific output combinations

Thermocouple	
Current	
Voltage	
Frequency / pulse	
Remote digital inpu	ıts

OUTPU

GENERAL

Isolation			
Display			
Ambient opera	ting		
Power supply			
Loop power su	pply		
Sensor excitati	on		
Configuration			
Max / min disp	lay		
Comms			
TFML maths fu	nctions		

Yes K, J, T, R, S, E, L, N. B Yes (active or passive)  $\pm$  100 mV,  $\pm$  1 VDC,  $\pm$  10 VDC

(96 x 48) mm panel mount

N/A Yes - with comms Yes

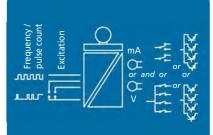
Yes
6-digit LED 14.2 mm
(-30 to +60) °C
(20 to 35) VDC <b>or</b> (90 to 253) VAC
Input, output (option)
N/A
Push-button / comms option
Yes
Option
Yes - with comms

# INPUT



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





## (96 x 48) mm panel mount

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



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

USB

Vs

 $\Omega$ 

% °C

(-30 to +100) °C

(10 to 90) %

±0.5 °C



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

USB

% °C

(-30 to +100) °C

(10 to 90) %

±0.5 °C

±3% RH

120, 250 mm

(10 to 30) VDC

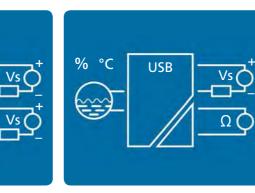
(-20 to +70) °C

PC

N/A



Cost-effective single-channel



(-30 to +100) °C (10 to 90) % ±0.5 °C ±3% RH 120 mm PC (10 to 30) VDC (-20 to +70) °C N/A



**BASE** ACCURACY

OUTPUT

GENERAL

Temperature range

Humidity (RH)

Temperature

# Humidity (RH)

## **Output channels**

Sensor length

**Output choices:** Temperature Humidity Dewpoint  $\Delta Td$  - difference between dewpoint temperature and temperature **Direct thermistor option** 

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

±3% RH
1 x (4 to 20) mA
Programmable
Default
Programmable
Programmable
Yes

Sensor length	
Configuration	
Power supply	
Ambient operating (electronics, not sensor)	
Encapsulated electronics	



# SEM 160 IW/HP

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





(-30 to +100) °C

(10 to 90) %

±0.5 °C

±3% RH

120 mm

PC

(10 to 30) VDC

(-20 to +70) °C

N/A

# Humidity and temperature transmitters



Single-channel wall-mounted humidity transmitter.

%

(m)

(-30 to +100) °C

(10 to 90) %

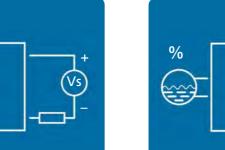
±0.5 °C

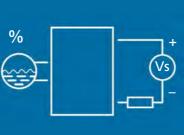
±2% RH

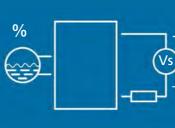




Single-channel remote mount humidity transmitter.







(-30 to +100) °C	(-30 to +100) °C
(10 to 90) %	(10 to 90) %
±0.5 °C	±0.5 °C
±2% RH	±2% RH
1 x (4 to 20) mA	1 x (4 to 20) mA
Default	Programmable
Default	Default
Programmable	Programmable
Programmable	Programmable
N/A	Yes
N/A	N/A
120, 250, 500 mm	2m or 5m
Yes	Yes
РС	РС
(10 to 30) VDC *	(10 to 30) VDC *
(-30 to +85) °C	(-30 to +85) °C
Yes	Yes

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



## Temperature range Humidity (RH)

Temperature Humidity (RH)

## **Output channels**

Output choices:	Temperature
	Humidity
	Dewpoint
	$\Delta \text{Td}$ - difference between dewpoint temperature and temperature
	Direct thermistor option

## **Plug-in sensor**

Cable / sensor length	
Display option	
Configuration	
Power supply	
Ambient operating (elect	tronics, not sensor)

1 x (4 to 20) mA
Programmable
Default
Programmable
Programmable
N/A
Yes
120 mm
Voc

Yes	
PC	
(10 to 30) VDC *	
(-30 to +85) °C	

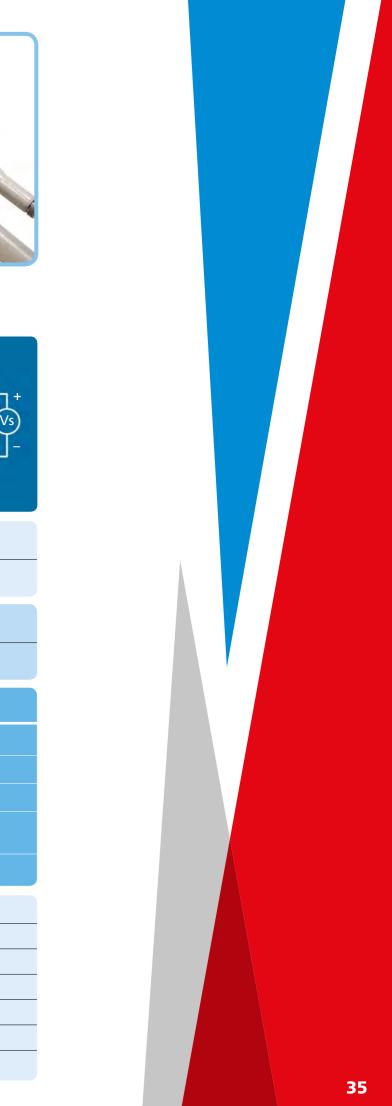
Yes

34	

Ou

OUTPUT

GENERAL



# Humidity and temperature transmitters



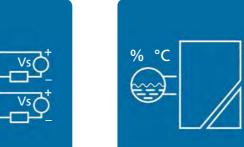
Dual-channel wall-mounted temperature / humidity transmitter.

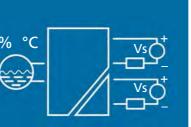


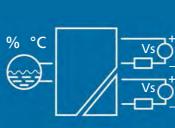
Dual-channel duct-mounted temperature / humidity transmitter. Dual-channel remote mount temperature / humidity transmitter.

162 R/HP

SEM







(-30 to +100) °C	(-30 to +100) °C
(10 to 90) %	(10 to 90) %
±0.5 °C	±0.5 °C
±2% RH	±2% RH
2 x (4 to 20) mA	2 x (4 to 20) mA
Default	Default
Default	Default
Programmable	Programmable
Programmable	Programmable
N/A	N/A
Yes	Yes
120, 250, 500 mm	2m or 5m
Yes	Yes
PC	РС
(10 to 30) VDC *	(10 to 30) VDC *
(-30 to +85) °C	(-30 to +85) °C
Yes	Yes



**Output channels** 



Temperature range Humidity (RH)

**Output choices:** Temperature

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

Temperature Humidity (RH)

OUTPUT

# GENERAL

	Humidity
	Dewpoint
	$\Delta Td$ - difference between dewpoint temperature and temperature
	Direct thermistor option
Plug-in sensor	
Cable / sensor l	ength
Display option	
Configuration	
Power supply	

(-30 to +100) °C
(10 to 90) %

% °C

±0.5 °C ±2% RH

2 x (4 to 20) mA
Default
Default
Programmable
Programmable
N/A
Voc

Yes	
120	0 mm
Yes	,
PC	
(10	to 30) VDC *
(-3	0 to +85) °C
Yes	

\_\_\_\_\_





## **Pressure** transmitters



Cost-effective pressure transmitter.

PTX 130/G3 or G4

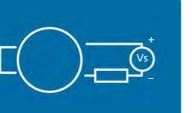
Cost-effective pressure transmitter.

(> 50 to 2000) mBar

N/A

Yes N/A N/A





PRESSURE

OUTPUT

GENERAL

Range	Range from zero	(> 2 to 700) Bar
options	Other range	(-1 to 1) Bar
Туре	Gauge	Yes
	Absolute	Yes
	Sealed gauge	Yes
2-wire (4	to 20) mA loop-powered	Yes
Voltage o	output	Yes (optional)
Standard	accuracy	$\leq \pm 0.5\%$ FS
Operating temperature		(-20 to +80) °C
Process temperature		(-20 to +135) °C
Diaphragm material		Ceramic
Material of body and process connection		303 stainless stee
Standard seals		Viton

APPROVALS

bearea gaage		
2-wire (4 to 20) mA loop-powered	Yes	Yes
Voltage output	Yes (optional)	Yes (optional)
Standard accuracy	$\leq \pm 0.5\%$ FS	$\leq \pm 0.5\%$ FS
Operating temperature	(-20 to +80) °C	(-20 to +80) °C
Process temperature	(-20 to +135) °C	(-40 to +120) °C
Diaphragm material	Ceramic	316 stainless steel
Material of body and process connection	303 stainless steel	303 stainless steel
Standard seals	Viton	Viton
Standard cable	N/A	N/A
1/4" BSP	Yes	Yes
1/4" NPT	Yes	Yes
1/2" BSP	Yes	Yes
1/2" BSP flush	Yes	Yes
Other to order	Yes	Yes
Open or closed ends	N/A	N/A

ATEX

PTX 19





High specification pressure transmitter High specification liquid level with ATEX / IECEx version.

transmitter with ATEX / IECEx version. level transmitter with ATEX version.

(>0.1 to 1000) Bar	(>1 to 250) mH20
N/A	N/A
Yes	Yes
Yes	Yes
N/A	N/A
Yes	Yes
Yes (optional)	N/A
$\leq \pm 0.25\%$ FS	$\leq \pm 0.25\%$ 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
Yes	N/A

N/A

Yes





High specification corrosive media



(>1 to 250) mH20
N/A
Yes
Yes
N/A

Yes
N/A

$\leq \pm 0.2\%$ 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

## **Infra-red sensors**

Temperature measuring range

Measurement accuracy



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

load

Target surface

(-20 to +250) °C

 $\pm$  1% of reading, or  $\pm$  1 °C,

whichever is the greater



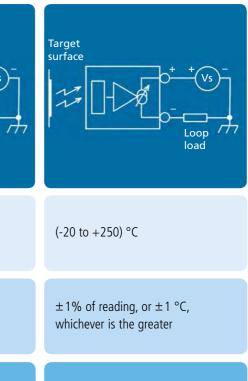


Non-contact infra-red sensor with 30:1 divergent optics.

Target surface	Target surface
(-20 to +500) °C	(-20 to +250) °C
$\pm$ 1% of reading, or $\pm$ 1 °C, whichever is the greater	$\pm$ 1% of reading, or $\pm$ 1 °C, whichever is the greater
(4 to 20) mA	(4 to 20) mA
1m	1m
Fixed at 0.95	Fixed at 0.95
(6 to 28) VDC	(6 to 28) VDC
(0 to +70) °C	(0 to +70) °C
65	65
Stainless steel	Stainless steel
Glass	Glass
18mm dia. x 103mm length	18mm dia. x 103mm length
M16 x 1mm	M16 x 1mm



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



### (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**



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

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.

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 No direct replaced		No direct replacement for higher temperature version
SEM167H1C	Wall-mounted humidity transmitter with power supply and output options	SEM162
SEM167H1P	Duct-mounted humidity transmitter with power supply and output options	SEM162
SEM167H1R	Remote mount humidity transmitter with power supply and output options	SEM162
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 temperaturetransmitter	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