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PRODUCT GUIDE  
EDITION **XXI**

Every effort has been made to ensure the accuracy of the information contained in this Product Guide, but the company accepts no liability for any errors or omissions.

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52-715-2170-09

# Welcome

to the latest Status Instruments Product Guide

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

### Quality counts

Quality has always been a priority for us at every level, and we operate a quality system approved to BS EN ISO9001:2015.

Our products also comply with the following accreditations:



### Where you'll find us working
















### How to use this Guide

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

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

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

# Contents

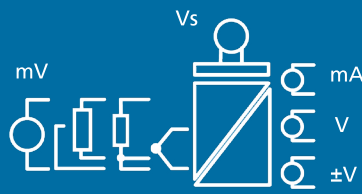
Product group	Page	Typical warranty
 Signal conditioning	4	5 years
 Rail-mounted transmitters	12	5 years
 Wireless transmitters	14	1 year 1 year on sensor
 In-head transmitters	16	10 years
 Temperature transmitters with display	22	5 years
 Temperature transmitters other packages	24	5 years
 Field-mounted indicators - temperature	26	5 years
 Field-mounted indicators - humidity, pressure	28	5 years
 Loop-powered process indicators	30	5 years
 Probe assemblies	32	2 years
 Panel meters	34	5 years
 Humidity and temperature transmitters	36	5 years 1 year on sensor
 Pressure transmitters	38	2 years
Versatility of displays	40	
Free apps and software	41	
Solution overview	42	
The Application Guide	44	
Legacy products	46	

# Signal conditioning

SEM  
1600T



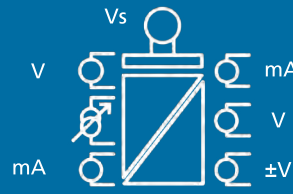
RTD, thermocouple, potentiometer, resistance or mV input.  
active / passive mA or voltage output.



SEM  
1600VI



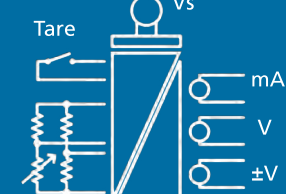
mA / voltage conditioner with active / passive mA or voltage input and outputs.



SEM  
1600B



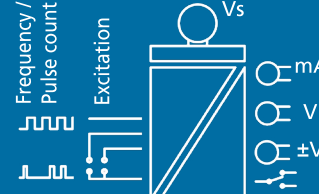
Load cell input signal conditioner with active / passive mA or voltage output.



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) $\Omega$
1 k $\Omega$ 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
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
17.5 mm

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

mA - active / passive
Voltage
Bi-polar voltage

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

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

mA - active / passive
Voltage
Bi-polar voltage

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

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

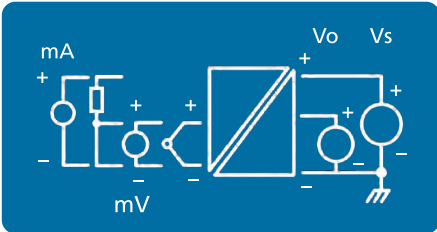
mA - active / passive
Voltage
Bi-polar voltage
Pulse (closed contact relay)

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

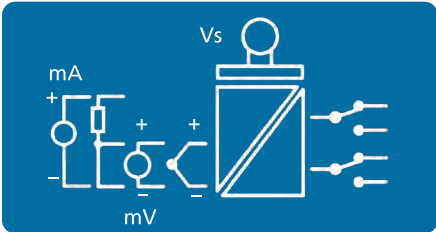
Signal conditioning



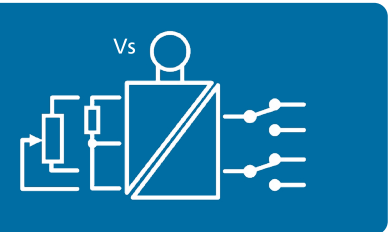
SEM 1620  
RTD, thermocouple, passive mA, mV input, 3-wire voltage output.



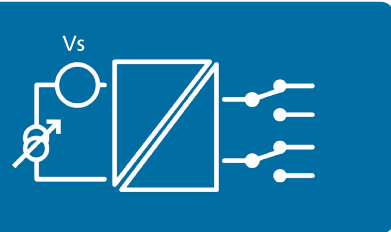
SEM 1630  
RTD, thermocouple, passive mA, mV input, with 2 change-over relay outputs.



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

OUTPUT

See datasheet for full details and specific output combinations

Voltage - 3 wire

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

Yes
N/A
N/A
N/A
K, J, N, E, T, R, S
(-10 to +75) mV
(-10 to +25) mA Passive
N/A
N/A
N/A

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

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

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

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

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

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

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

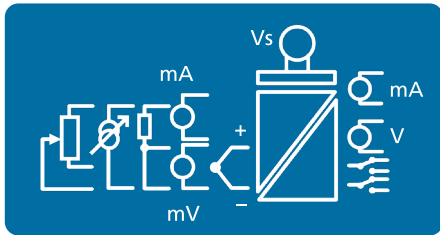
Yes - relays
N/A
N/A
Yes
N/A
(-30 to +70) °C
(4 to 20) mA loop
N/A
N/A
PC
N/A
Yes - flow formula
17.5 mm

# Signal conditioning



SEM  
1700

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



### Single channel

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

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

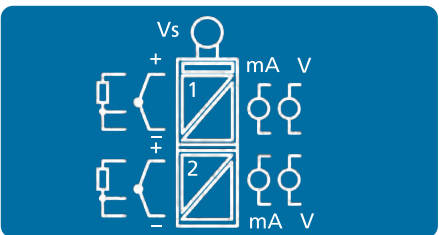
Yes
Yes - push-button
N/A
N/A
N/A
(-30 to +70) $^{\circ}\text{C}$
Universal, (22 to 300) VDC and (24 to 250) VAC
Input and output
Yes - mA loop
PC - push-button
N/A
N/A
22 mm

Yes (see website for more details)



SEM  
1720

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



### Dual channel

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

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

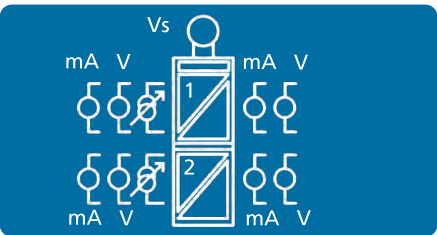
Yes
N/A
Yes
Yes
N/A
(-30 to +70) $^{\circ}\text{C}$
Universal, (22 to 300) VDC and (24 to 250) VAC
Output, both channels
Yes - both channels
PC / DIP switch - pre-set ranges
N/A
Yes
22 mm

N/A



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
$\pm 50$ VDC
$\pm 50$ mA (active / passive)
N/A
N/A
N/A

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

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

N/A

## 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

APPROVALS SIL



Signal conditioning



(4 to 20) mA current loop isolator.



Converts DC voltage to an isolated (4 to 20) mA signal.  
*NB: may be supplied in previous-style housing*



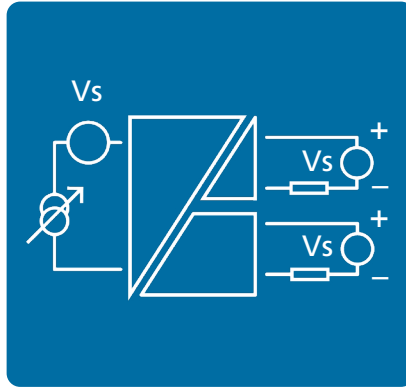
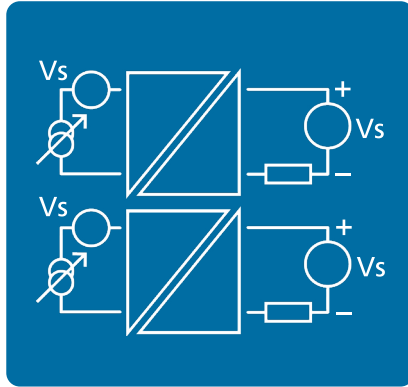
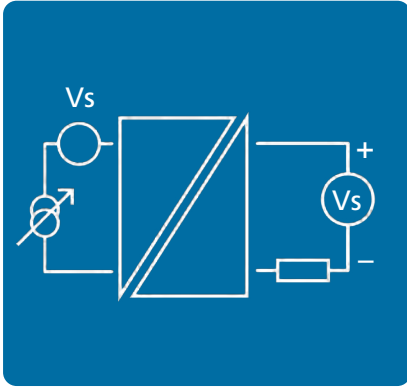
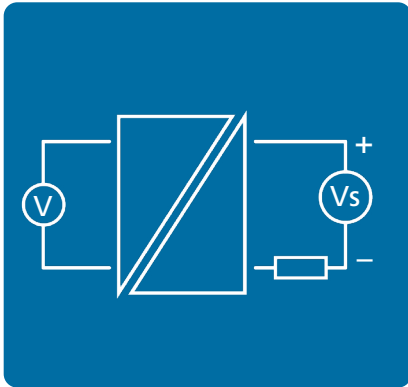
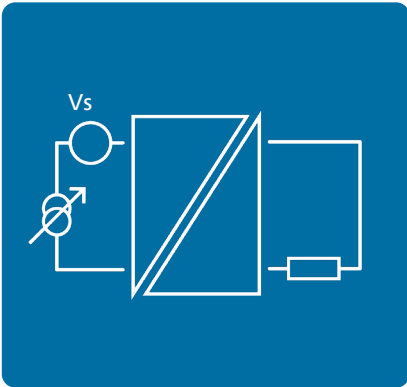
Isolating current loop booster.



(4 to 20) mA current loop isolator.



Isolating current loop splitter.



INPUT	Type	(4 to 20) mA passive	DC voltage
	Range	(4 to 20) mA	Any between (-10 to 100) VDC
OUTPUT	(4 to 20) mA active	(4 to 20) mA passive	
GENERAL	Volt drop	Input 5.0 VDC typical	N/A
	Maximum loop supply	Input 35 VDC	Output 30 VDC
	Isolation	500 VDC	500 VDC
	Maximum load	Output 500 Ω	N/A
	Power supply	Input loop	Output loop
	Ambient operating temperature	(0 to +70) °C	(0 to +70) °C
	Width	12.5 mm	12.5 mm

Rail-mounted transmitters



SEM 1605P

Pt100 transmitter; PC configuration.



SEM 1605TC

Thermocouple transmitter; PC configuration.



SEM 1615

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



SEM 315 MKII

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



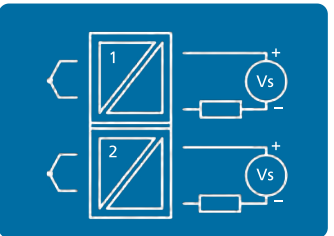
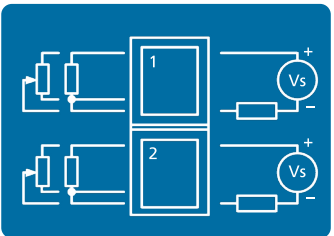
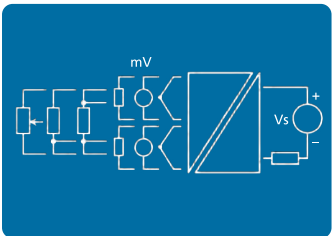
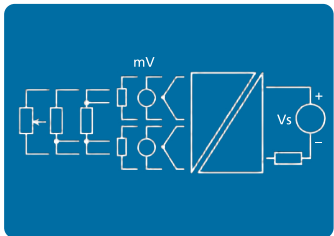
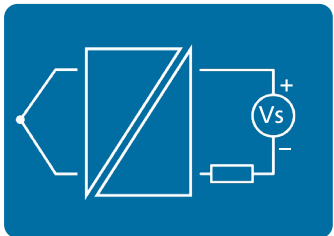
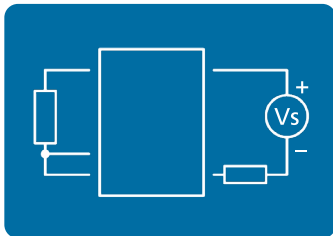
SEM 1801/2XR

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



SEM 1801/2XTC

Thermocouple transmitter; PC configuration. IS-approved.



TYPE		Single channel	Single channel	Dual input	Dual input	Single or dual channel	Single or dual channel
INPUT	Pt100	Yes - 2, 3 wire	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Other RTD sensors	Yes	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Resistance	N/A	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω	N/A	N/A
	Potentiometer	N/A	N/A	1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ auto sense	Yes	N/A
	Thermocouple type	N/A	K, J, N, E, T, R, S, L, U, B, C, D, G	K, J, N, E, T, R, S, L, U, B, C, D, G custom	K, J, N, E, T, R, S, L, U, B, C, D, G custom	N/A	K, J, N, E, T, R, S, L, U, B, C, D, G
	Voltage	N/A	N/A	(-1000 to +1000) mV	(-1000 to +1000) mV	N/A	(-100 to +200) mV
	Current	N/A	N/A	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
	Isolation	N/A	Yes	Yes	Yes	N/A	N/A
	Custom linearisation	N/A	N/A	Yes	Yes	Yes - resistance / potentiometer	Yes
	Output zero/span alignment to input	Yes	Yes	Yes	Yes	Yes	Yes
	User offset	Yes	Yes	Yes	Yes	Yes	Yes
	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
	Configuration	PC	PC	PC	PC / HART configurator	PC	PC
GENERAL	Width	12.5 mm	12.5 mm	17.5 mm	17.5 mm	22 mm	22 mm
	ATEX	N/A	N/A	N/A	N/A	Yes	Yes
	UKEX	N/A	N/A	N/A	N/A	Yes	Yes
	IEC Ex	N/A	N/A	N/A	N/A	Yes	Yes
	EMC / UKCA	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326
APPROVALS	SIL	N/A	N/A	Yes (see website for more details)	Yes (see website for more details)	N/A	N/A

Wireless transmitters



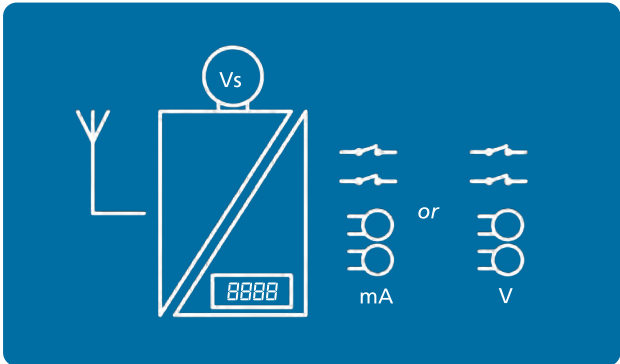
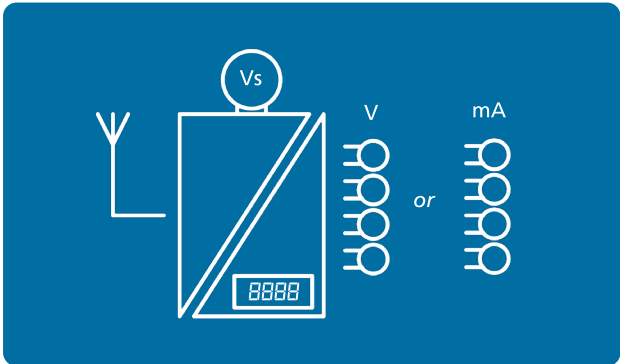
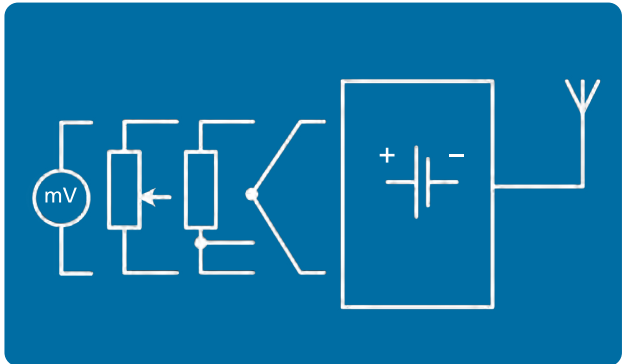
Universal head-mounted wireless transmitter



Wireless receiver for up to 16 x WTX700



Wireless receiver for up to 16 x WTX700



INPUT	TYPE	Head mount in SCH4 or SCH11
	Pt100	Yes
	RTD options	Yes
	Potentiometer	Up to 10 kΩ 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
OUTPUT	Measurement data on ISM band 868.4MHz	Yes - transmit
		Measurement data on ISM band 868.4 MHz
	Communication	N/A
GENERAL	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)

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 - active / passive <b>or</b> voltage
	2 off (250 VAC @ 3A) C/O relay
RS485 Modbus for up to 16 x WTX700	RS485 Modbus for up to 16 x WTX700
300 m line of sight	300 m line of sight
Links up to 16 x WTX700 transmitters	Links up to 16 x WTX700 transmitters
(−20 to +50) °C	(−20 to +50) °C
(110 to 240) VAC or (20 to 30) VDC	(110 to 240) VAC or (20 to 30) VDC
PC / push-button	PC / push-button
22.5 mm	22.5 mm

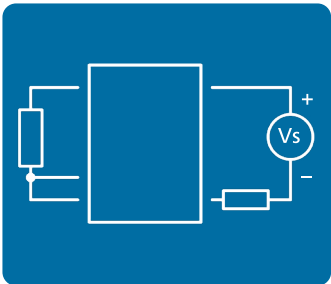


In-head transmitters



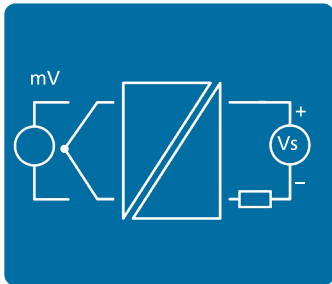
SEM 203P

Pt100 transmitter; push-button configuration.



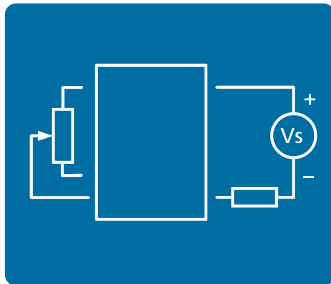
SEM 203TC

Thermocouple transmitter; push-button configuration.



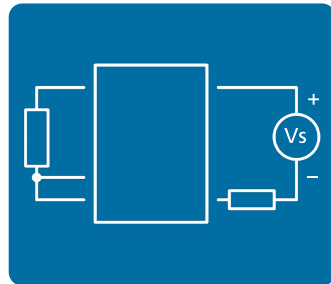
SEM 203W

Potentiometer transmitter; push-button configuration.



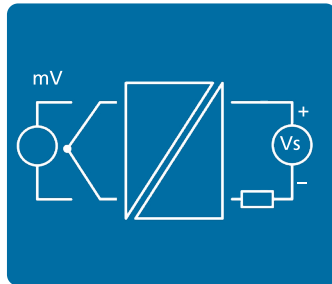
SEM 206P

Pt100 transmitter; PC configuration.



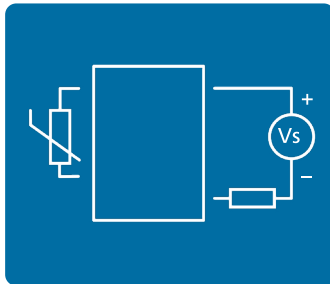
SEM 206TC

Thermocouple transmitter; PC configuration.



SEM 206TH

Thermistor transmitter; PC / push-button configuration.



TYPE		In-head	In-head	In-head	In-head	In-head	In-head
INPUT	Pt100	Yes - 2, 3 wire	N/A	N/A	Yes - 2, 3 wire	N/A	N/A
	Other RTD sensors	N/A	N/A	N/A	N/A	N/A	N/A
	Resistance	N/A	N/A	N/A	N/A	N/A	N/A
	Potentiometer	N/A	N/A	1 k $\Omega$ to 100 k $\Omega$	N/A	N/A	N/A
	Thermocouple type	N/A	K, J, N, E, T, R, S	N/A	N/A	K, J, N, E, T, R, S	N/A
	Voltage	N/A	(-10 to +70) mV	N/A	N/A	(-10 to +70) mV	N/A
	Current	N/A	N/A	N/A	N/A	N/A	N/A
	Thermistor	N/A	N/A	N/A	N/A	N/A	Yes
OUTPUT		(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA
GENERAL	Isolation	N/A	Yes	N/A	N/A	Yes	N/A
	Custom linearisation	N/A	N/A	N/A	N/A	N/A	N/A
	Output zero/span alignment to input	Yes - push-button	Yes - push-button	Yes - push-button	N/A	N/A	Yes - push-button
	User offset	N/A	N/A	N/A	Yes	Yes	N/A
	Display	N/A	N/A	N/A	N/A	N/A	N/A
	Ambient operating	(-40 to +85) $^{\circ}$ C	(-40 to +85) $^{\circ}$ C	(-40 to +85) $^{\circ}$ C	(-40 to +85) $^{\circ}$ C	(-40 to +85) $^{\circ}$ C	(-40 to +85) $^{\circ}$ C
	Power supply	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
APPROVALS	Configuration	Push-button	Push-button	Push-button	PC	PC	Push-button / PC
	Width / diameter	43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.	43 mm dia.
	ATEX	N/A	N/A	N/A	N/A	N/A	N/A
	UKEX	N/A	N/A	N/A	N/A	N/A	N/A
	IEC Ex	N/A	N/A	N/A	N/A	N/A	N/A
	Vibration test	Yes	Yes	N/A	Yes	Yes	N/A
	EMC / UKCA	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

In-head transmitters

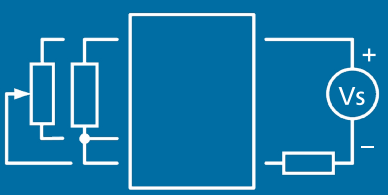
TTR  
200



TTR  
200X



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



In-head

Yes - 2, 3 wire
Yes - 2, 3 wire
(10 to 100 k) $\Omega$
1 k $\Omega$ to 100 k $\Omega$ 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
Yes
EN BS 61326
N/A

TTC  
200



TTC  
200X



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



In-head

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

(4 to 20) mA

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

Yes
Yes
Yes
Yes
EN BS 61326
N/A

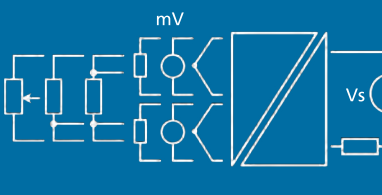
SEM  
210 MKII



SEM  
210X MKII



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



In-head, dual input

Yes - 2, 3, 4 wire
Yes - 2, 3, 4 wire
(10 to 10,500) $\Omega$
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

(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
Yes
EN BS 61326
Yes (see website for more details)

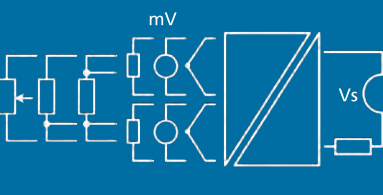
SEM  
310 MKII



SEM  
310X MKII



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



In-head, dual input

Yes - 2, 3, 4 wire
Yes - 2, 3, 4 wire
(10 to 10,500) $\Omega$
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

(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
Yes
EN BS 61326
Yes (see website for more details)

INPUT

TYPE

Pt100  
Other RTD sensors  
Resistance  
Potentiometer  
Thermocouple type

Voltage  
Current  
Thermistor

OUTPUT

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

(4 to 20) mA

GENERAL

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

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

APPROVALS

ATEX  
UKEX  
IEC Ex  
Vibration test  
EMC / UKCA  
SIL

Yes
Yes
Yes
Yes
EN BS 61326
N/A

In-head transmitters, analogue

for applications that require a rapid response



SEM 110P

High-accuracy analogue (4 to 20) mA Pt100 transmitter.



SEM 110TC

High-accuracy analogue (4 to 20) mA thermocouple transmitter.



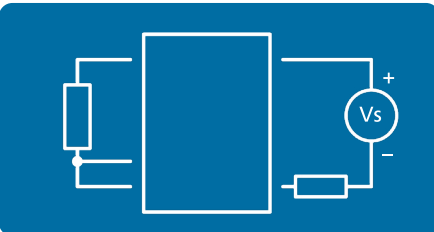
SEM 104P

Analogue (4 to 20) mA Pt100 transmitter.

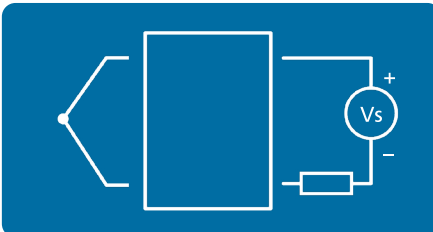


SEM 104TC

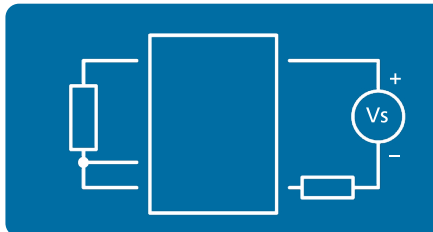
Analogue (4 to 20) mA thermocouple transmitter.



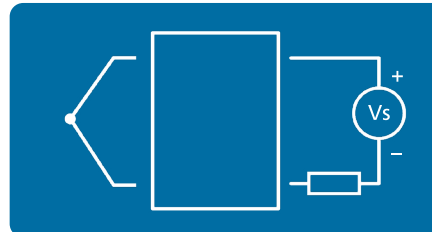
In-head



In-head



In-head



In-head

INPUT	TYPE				
	Pt100		Yes - 2, 3 wire	N/A	Yes - 2, 3 wire
	Pt100 difference		Option D	N/A	N/A
	Resistance		Option Z	N/A	N/A
	Potentiometer		Option W	N/A	N/A
	Thermocouple type		N/A	K, J, T, R, S	N/A
OUTPUT	Voltage		N/A	N/A	N/A
			(4 to 20) mA	(4 to 20) mA	(4 to 20) mA
GENERAL	Output zero/span alignment to input		Yes - potentiometer	Yes - potentiometer	Yes - potentiometer
	User offset		N/A	N/A	N/A
	Display		N/A	N/A	N/A
	Ambient operating		(0 to +70) °C	(0 to +70) °C	(0 to +70) °C
	Power supply		(10 to 45) VDC	(10 to 45) VDC	(10 to 30) VDC
	Configuration		Factory-set	Factory-set	Solder link / potentiometer
APPROVALS	Width / diameter		53 mm dia.	53 mm dia.	43 mm dia.
	EMC / UKCA		EN BS 61326	EN BS 61326	EN BS 61326

Temperature transmitters with display



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



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



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



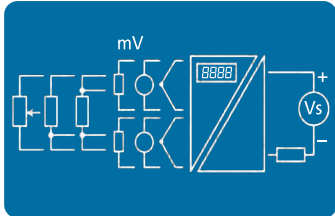
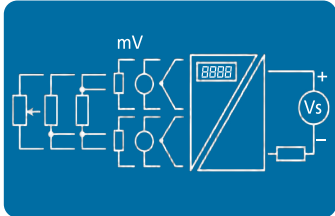
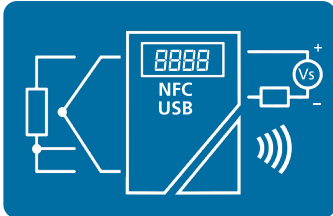
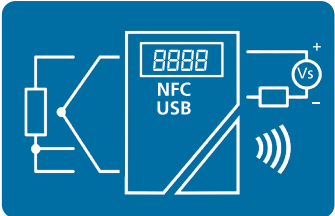
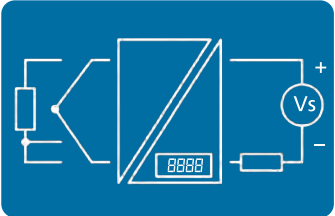
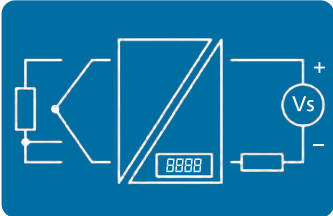
Head-mounted RTD, thermocouple transmitter with integrated LCD display. PC configuration. Chrome cap.



Head-mounted universal dual input transmitter, with HART 5, 6, 7 and integrated LCD display. PC configuration.



ATEX-approved head-mounted universal dual input transmitter, with HART 5, 6, 7 and integrated LCD display. PC configuration.



INPUT	TYPE	In-head (SCH4)	In-head (SCH15)	In-head (SCH4)	In-head (SCH15)	In-head, dual input (SCH55)	In-head, dual input (SCH55)
	Pt100	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire
	Other RTD sensors	N/A	N/A	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire
	Resistance	N/A	N/A	N/A	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω
OUTPUT	Potentiometer	N/A	N/A	N/A	N/A	1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ auto sense
	Thermocouple type	K, J, N, E, T, R, S	K, J, N, E, T, R, S	K, J, N, E, T, R, S, B	K, J, N, E, T, R, S, B	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
	Voltage	N/A	N/A	N/A	N/A	(-1000 to +1000) mV	(-1000 to +1000) mV
	Current	(0 to 25) mA	(0 to 25) mA	(0 to 25) mA	(0 to 25) mA	N/A	N/A
GENERAL	Thermistor	N/A	N/A	N/A	N/A	N/A	N/A
	Isolation	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA Datalogging	(4 to 20) mA Datalogging	(4 to 20) mA HART	(4 to 20) mA HART
	Custom linearisation	Yes	Yes	Yes	Yes	Yes	Yes
	Output zero/span alignment to input	N/A	N/A	Yes - mA	Yes - mA	Yes	Yes
APPROVALS	User offset	N/A	N/A	N/A	N/A	Yes	Yes
	Display	4-digit LED (9mm)	4-digit LED (9mm)	Yes - temp	Yes - temp	Yes	Yes
	Ambient operating	(-20 to +70) °C	(-20 to +70) °C	6-digit LCD (7.9 mm)	6-digit LCD (7.9 mm)	Multifunctional LCD	Multifunctional LCD
	Power supply	(15 to 30) VDC	(15 to 30) VDC	(-20 to +70) °C	(-20 to +70) °C	(-25 to +85) °C	(-25 to +85) °C
	Configuration	PC / push-button	PC / push-button	(15 to 30) VDC	(15 to 30) VDC	(12 to 30) VDC	(12 to 30) VDC
	Data download	N/A	N/A	PC / push-button / NFC	PC / push-button / NFC	PC and HART configurator	PC and HART configurator
	Dimensions	(see data sheet)	(see data sheet)	NFC / USB	NFC / USB	N/A	N/A
	ATEX	N/A	N/A	(see data sheet)	(see data sheet)	(see data sheet)	(see data sheet)
	UKEX	N/A	N/A	Yes	Yes	Yes	Yes
	IEC Ex	N/A	N/A	Yes - mA	Yes - mA	Yes	Yes
	EMC / UKCA	EN BS 61326	EN BS 61326	N/A	N/A	N/A	N/A
	SIL	N/A	N/A	Yes - temp	Yes - temp	Yes	Yes

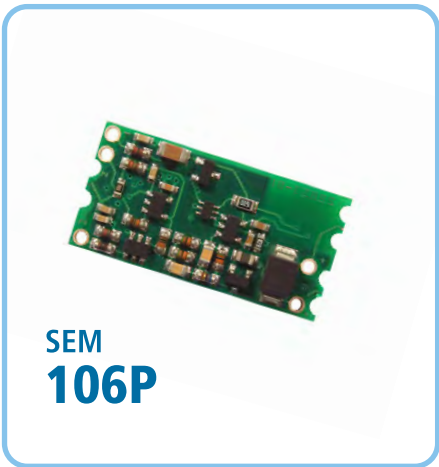


Temperature transmitters

other packages



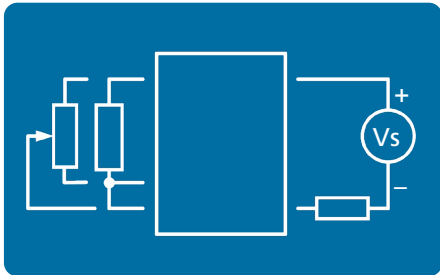
HTR 200/1  
MA head-mounted RTD, potentiometer, resistance transmitter.



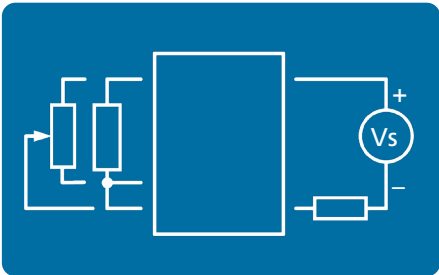
SEM 106P  
OEM transmitter - build into your own device.



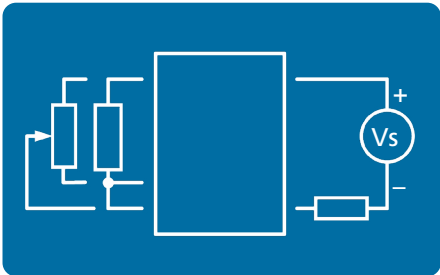
STA 206P  
Space-saving 'all-in-one' Pt100 sensor and transmitter.



In-head



In-head



In-head

INPUT

TYPE

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

- 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

OUTPUT

(4 to 20) mA

GENERAL

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

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

APPROVALS

EMC / UKCA

EN BS 61326

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

(4 to 20) mA

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

EN BS 61326

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

(4 to 20) mA

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

EN BS 61326



# Field mounted indicators

## - temperature

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



DM 650TM

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



DM 650TM/C

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



DM 650XTM

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



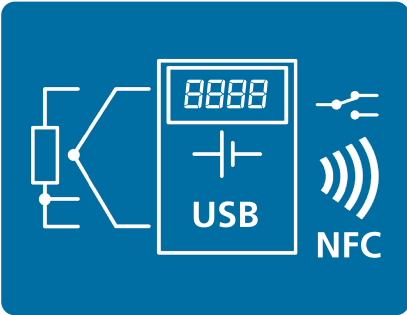
DM 665TM

Large-digit LCD battery-powered Pt100 and thermocouple thermometer.

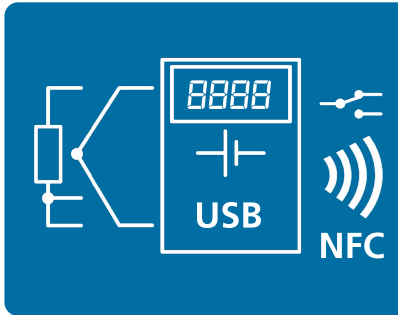


DM 670TM

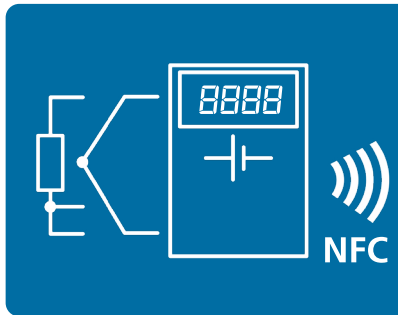
Large-digit LCD battery-powered Pt100 and thermocouple thermometer, with two relays and datalogging.



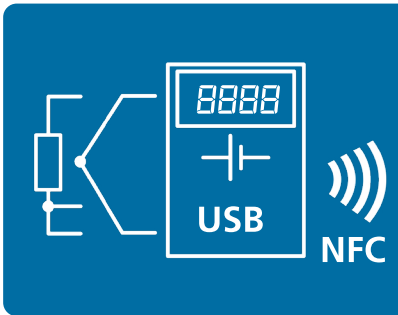
Sensor / surface mount



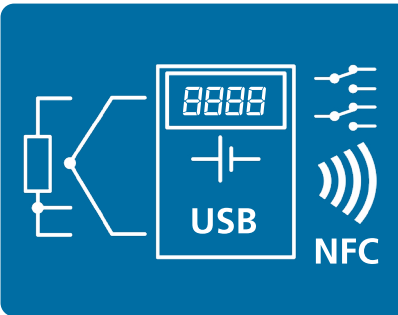
Sensor / surface mount



Sensor / surface mount



Sensor / surface / panel mount



Sensor / surface / panel mount

### INPUT

#### Mechanical

- Pt100
- Thermocouple
- RTD - other options
- Linearisation / offset

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

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

### OUTPUT

- Display
- Relay
- Data download
- Custom messaging
- Datalogging
- Max / min

- 6-digit LCD (7.9 mm)
- Yes - 1 relay
- USB / NFC
- Yes
- Yes - 5000 points
- Yes - via datalogging

- 6-digit LCD (7.9 mm)
- Yes - 1 relay
- USB / NFC
- Yes
- Yes - 5000 points
- Yes - via datalogging

- 6-digit LCD (7.9 mm)
- N/A
- NFC
- Yes
- Yes - 5000 points
- Yes - via datalogging

- 6-digit LCD (15.8 mm)
- N/A
- USB / NFC
- N/A
- N/A
- Yes

- 6-digit LCD (15.8 mm)
- Yes - 2 relays
- USB / NFC
- Yes
- Yes - 5000 points
- Yes, and relay condition

### GENERAL

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

- (-30 to +70) °C
- Battery 3.6 V lithium
- 2 years typical
- SCH4
- IP67
- USB

- (-30 to +70) °C
- Battery 3.6 V lithium
- 2 years typical
- SCH15
- IP67
- USB

- (-30 to +70) °C
- Battery 3.6 V lithium
- 2 years typical
- SCH4
- IP67
- Push-button and NFC (some functions)

- (-30 to +70) °C
- 2 x AA 1.5V alkaline, or lithium
- 2 years typical, depending on battery type
- Stainless steel 100mm diameter
- IP65
- Push-button

- (-30 to +70) °C
- Battery 3.6 V lithium
- 2 years typical
- Stainless steel 100mm diameter
- IP65
- USB

### APPROVALS

- ATEX
- UKEX
- IEC Ex

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

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

- Yes
- Yes
- Yes

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

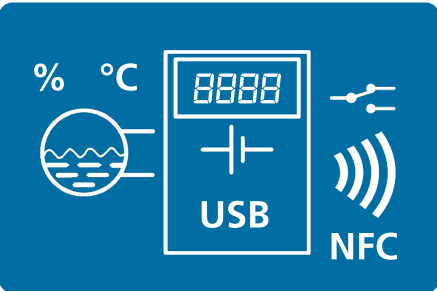
- N/A
- N/A
- N/A

Field mounted indicators

- humidity
- pressure



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



Sensor / surface mount

Pt100	N/A
Thermocouple	N/A
Pressure and media temperature	N/A
Humidity and media temperature	Yes - sensor included
Current	N/A
Voltage	N/A
Linearisation / offset	N/A

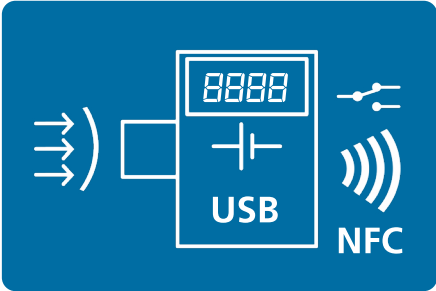
Display	6-digit LCD 7.9 mm
Relay	Yes - 1 relay
Data download	USB / NFC
Custom messaging	N/A
Datalogging	Yes - 5000 points
Max / min	Yes - via datalogging

Ambient operating	(-30 to +70) °C
Power supply	Battery 3.6 V lithium
Battery life	2 years typical
Enclosure	SCH4
Environmental rating	IP67
Configuration	USB and NFC (some functions)

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



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



Sensor / surface mount

Pt100	N/A
Thermocouple	N/A
Pressure and media temperature	Yes - sensor included, 1/4" BSP thread (adaptors available)
Humidity and media temperature	N/A
Current	N/A
Voltage	N/A
Linearisation / offset	Both

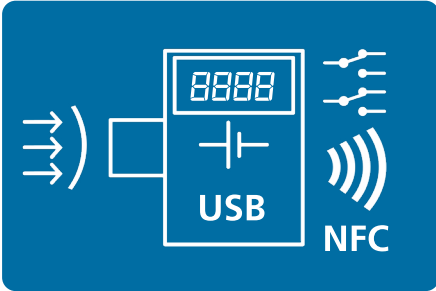
Display	6-digit LCD 7.9 mm
Relay	Yes - 1 relay
Data download	USB / NFC
Custom messaging	Yes
Datalogging	Yes - 5000 points
Max / min	Yes - via datalogging

Ambient operating	(-30 to +70) °C
Power supply	Battery 3.6 V lithium
Battery life	2 years typical
Enclosure	SCH4
Environmental rating	IP67
Configuration	USB and NFC (some functions)

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



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



Sensor / surface / panel mount

Pt100	N/A
Thermocouple	N/A
Pressure and media temperature	Yes - sensor included, 1/4" BSP thread (adaptors available)
Humidity and media temperature	N/A
Current	N/A
Voltage	N/A
Linearisation / offset	Both

Display	6-digit LCD 15.8 mm
Relay	Yes - 2 relays
Data download	USB / NFC
Custom messaging	Yes
Datalogging	Yes - 3600 points
Max / min	Yes, and relay option

Ambient operating	(-30 to +70) °C
Power supply	Battery 3.6 V lithium
Battery life	2 years typical
Enclosure	Stainless steel 100mm diameter
Environmental rating	IP65
Configuration	USB

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

Mechanical

INPUT

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

OUTPUT

Display
Relay
Data download
Custom messaging
Datalogging
Max / min

GENERAL

Ambient operating
Power supply
Battery life
Enclosure
Environmental rating
Configuration

APPROVALS

ATEX
------

# Loop-powered process indicators

See in-head range (pages 16 to 21) for transmitter options.

All our loop-powered displays can be used with any (4 to 20) mA signal output.



DM 650LP

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



DM 650LP/C

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



DM 650LP/55

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



DM 700

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



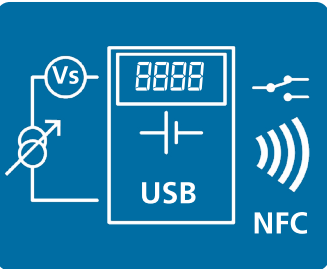
DM 700/C

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

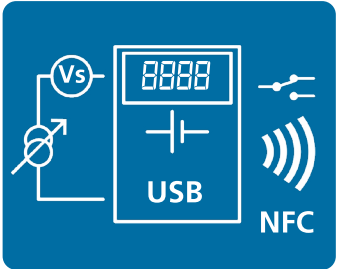


DM 700/55

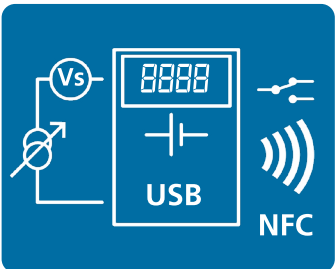
(4 to 20) mA loop-powered LED process indicator.



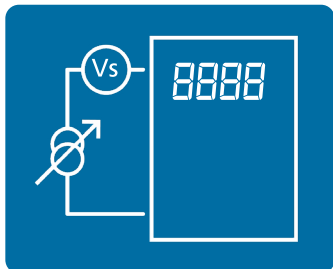
Sensor / surface mount



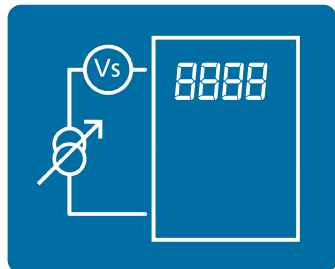
Sensor / surface mount



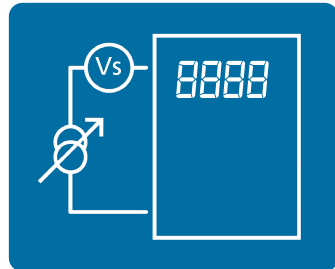
Sensor / surface mount



Sensor / surface mount



Sensor / surface mount



Sensor / surface mount

## INPUT

### Mechanical

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

- N/A
- N/A
- N/A
- N/A
- (4 to 20) mA loop
- N/A
- Both

- N/A
- N/A
- N/A
- N/A
- (4 to 20) mA loop
- N/A
- Both

## OUTPUT

- Display
- Relay
- Data download
- Custom messaging
- Datalogging
- Max / min

- 6-digit LCD (7.9 mm)
- Yes - 1 relay
- USB / NFC
- Yes
- Yes - 5000 points
- Yes - via datalogging

- 6-digit LCD (7.9 mm)
- Yes - 1 relay
- USB / NFC
- Yes
- Yes - 5000 points
- Yes - via datalogging

## GENERAL

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

- (−30 to +70) °C
- (4 to 20) mA loop
- 2 years typical
- SCH4
- IP67
- USB and NFC (some functions)

- (−30 to +70) °C
- (4 to 20) mA loop
- 2 years typical
- SCH15
- IP67
- USB and NFC (some functions)

## APPROVALS

- ATEX

- N/A

- N/A

- N/A

- N/A

- N/A

- N/A



# Probe assemblies



(typical examples)

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

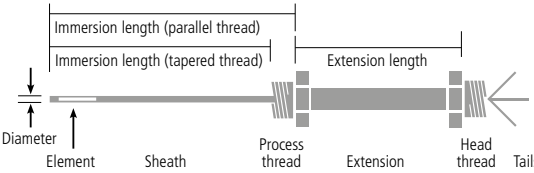
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

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

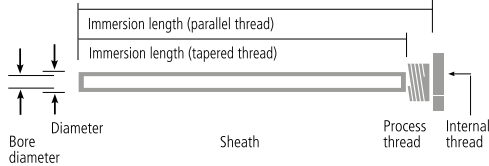
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

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

## Typical probe specification diagram



## Typical thermowell specification diagram



## Probes



STS  
Style 1



STS  
Style 2



STS  
Style 3



STS  
Style 4



STS  
Style 5



STS  
Style 6



STS  
Style 7



STS  
Style 8



STS  
Style 9



STS  
Style 10



STS  
Style 11



STS  
Style 12

(items shown not necessarily to scale)

## Transmitters/Displays

Many will suit; these are just some examples



SEM  
210X

In-head range.  
See page 19



DM  
650TM

Battery-powered  
range. See page 26



DM  
670TM

Battery-powered  
range. See page 27



DM  
700

Loop-powered  
range. See page 31



SEM  
710

Loop-powered  
transmitter with  
display. See page 22

## Connection blocks



## Heads



SCH4

ABS plastic



SCH11

Aluminium

Ask us about  
our Ex ia connection heads



SCH15

Stainless steel



SCH55

Stainless steel /  
Aluminium  
Ex d and Ex ia

We are certified to supply Ex d  
and Ex ia probe assemblies



Please note that we also supply  
Connection heads with  
built-in  
displays

Example  
shown:  
DM650LP/55

## Compression glands



## Thermowells



STW  
Style 1



STW  
Style 2



STW  
Style 3



STW  
Style 4



STW  
Style 5



STW  
Style 6

# Panel meters

Panel meter housing accessory available



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.



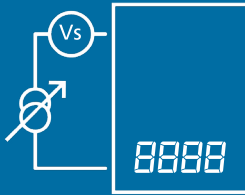
DM 3600U

6-digit universal panel meter.

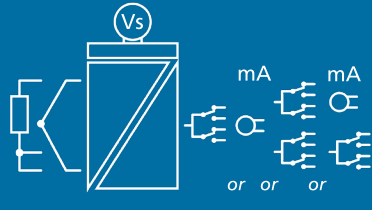


DM 3600A

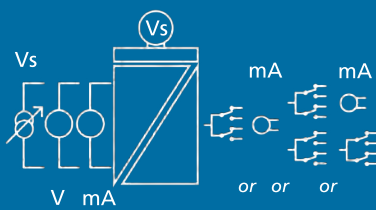
6-digit universal panel meter with rate /totaliser.



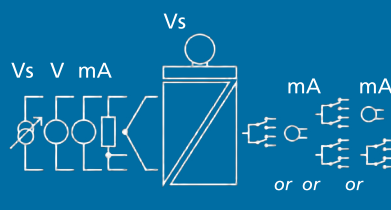
(48 x 24) mm panel mount



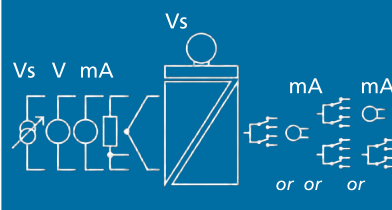
(96 x 48) mm panel mount



(96 x 48) mm panel mount



(96 x 48) mm panel mount



(96 x 48) mm panel mount

## INPUT

### Mechanical

Pt100	N/A	Yes
Thermocouple	N/A	K, J, T, R, S, E, L, N. B
Current	Yes (passive)	N/A
Voltage	N/A	N/A
Frequency / pulse	N/A	N/A
Remote digital inputs	N/A	N/A
User linearisation	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  
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

## GENERAL

Isolation	N/A	Yes
Display	4-digit LED 10 mm	4-digit LED 14.2 mm
Ambient operating	(-10 to +60) °C	(-30 to +60) °C
Power supply	(4 to 20) mA loop	(20 to 35) VDC <b>or</b> (90 to 253) VAC
Loop power supply	N/A	Output (option)
Sensor excitation	N/A	N/A
Configuration	Push-button	Push-button
Max / min display	N/A	N/A
Comms	N/A	N/A
TFML maths functions	N/A	N/A

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

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

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



# Humidity and temperature transmitters



Cost-effective dual-channel humidity / temperature transmitter. Duct or wall mount.

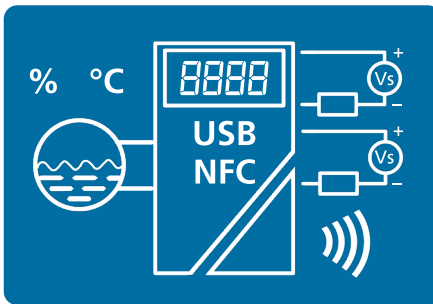
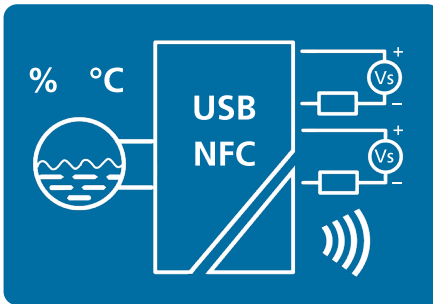
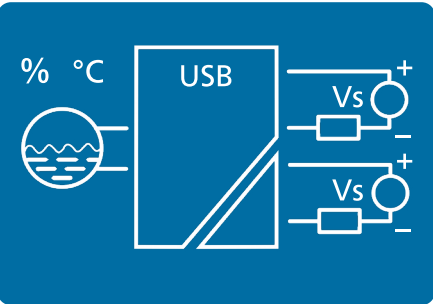


Dual-channel humidity / temperature transmitter. Duct, wall or remote mount.  
**Note: replaceable sensors**



Dual-channel humidity / temperature transmitter with display. Duct, wall or remote mount.  
**Note: replaceable sensors**

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



## INPUT

Temperature range

Humidity (RH)

## BASE ACCURACY

Temperature

Humidity (RH)

## OUTPUT

Output channels

Datalogging

Output choices: Temperature

Humidity

Dewpoint

$\Delta T_d$  - difference between dewpoint temperature and temperature

Direct thermistor option

Data download

## GENERAL

Plug-in sensor

Mounting option, cable / sensor length

Display

Configuration

Power supply

Ambient operating temperature (electronics, not sensor)

(-30 to +70) °C

(10 to 90) %

±0.5 °C

±3% RH

2 x (4 to 20) mA

N/A

Default

Default

Programmable

Programmable

Yes - single channel option only

N/A

Yes

Wall - 120 mm  
Duct - 120, 250 mm

N/A

PC

(10 to 30) VDC \*

(-30 to +70) °C

(-30 to +70) °C

(10 to 90) %

±0.5 °C

±2% RH

2 x (4 to 20) mA

Yes

Default

Default

Programmable

Programmable

N/A

USB / NFC

Yes

Wall - 110 mm  
Duct - 120, 250 mm

N/A

PC and NFC (some functions)

(10 to 30) VDC \*

(-30 to +70) °C

(-30 to +70) °C

(10 to 90) %

±0.5 °C

±2% RH

2 x (4 to 20) mA

Yes

Default

Default

Programmable

Programmable

N/A

USB / NFC

Yes

Wall - 110 mm  
Duct - 120, 250 mm

6-digit LCD (7.9mm)

PC and NFC (some functions)

(10 to 30) VDC \*

(-30 to +70) °C

# Pressure transmitters

Pressure transmitters can be customised with specialised fittings (such as hygienic tri-clamps, flushed diaphragms, etc) including our pressure digital gauges DM650PM and DM670PM (see page 29).



Pressure transmitter.



Pressure transmitter with display.



High specification pressure transmitter with ATEX version.



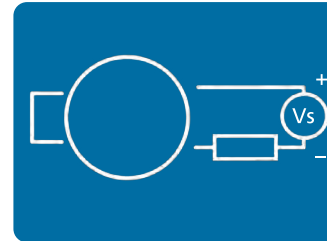
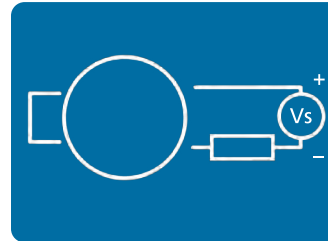
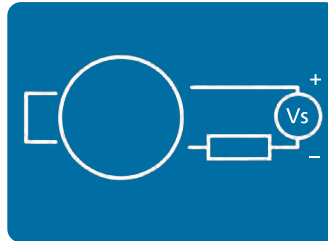
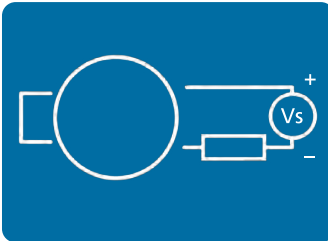
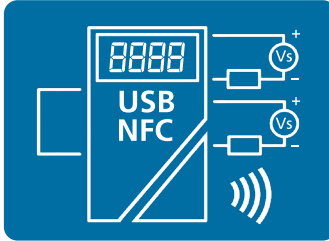
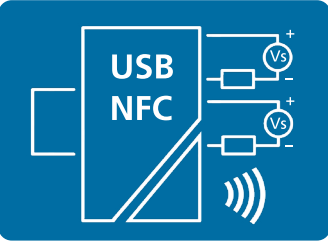
High specification pressure transmitter with ATEX / IECEx version.



High specification liquid level transmitter with ATEX / IECEx version.



High specification corrosive media level transmitter with ATEX version.



PRESSURE	Range options	Range from zero	(> -1 to 100) Bar	(> -1 to 100) Bar	(> -0.1 to 600) Bar	(> -0.1 to 1000) Bar	(>1 to 250) mH2O	(>1 to 250) mH2O
		Other ranges	Please enquire	Please enquire	N/A	N/A	N/A	N/A
OUTPUT	Type	Gauge	Yes	Yes	Yes	Yes	Yes	Yes
		Absolute	Yes	Yes	Yes	Yes	Yes	Yes
		Sealed gauge	N/A	N/A	N/A	N/A	N/A	N/A
	2-wire (4 to 20) mA loop-powered		Yes x 2 (temp and pressure)	Yes x 2 (temp and pressure)	Yes	Yes	Yes	Yes
GENERAL	Voltage output		N/A	N/A	Yes (optional)	Yes (optional)	N/A	N/A
	Datalogging		Yes	Yes	N/A	N/A	N/A	N/A
	Linearisation		Yes (pressure, temp & process)	Yes (pressure, temp & process)	N/A	N/A	N/A	N/A
	Standard basic accuracy		≤ ±0.15% FS	≤ ±0.15% FS	≤ ±0.25% FS	≤ ±0.2% FS	≤ ±0.2% FS	≤ ±0.2% FS
PROCESS CONNECTION	Operating temperature		(-20 to +70) °C	(-20 to +70) °C	(-20 to +125) °C	(-40 to +125) °C	(-5 to +80) °C	(-5 to +80) °C
	Process temperature		(-40 to +110) °C	(-40 to +110) °C	(-20 to +150) °C	(-40 to +150) °C	(-5 to +80) °C	(-5 to +80) °C
	Diaphragm material		316 stainless steel	316 stainless steel	316 stainless steel	316 stainless steel	316 stainless steel	316 stainless steel with Teflon protection
	Material of body and process connection		316 stainless steel	316 stainless steel	303 stainless steel	303 stainless steel	303 stainless steel	PVDF
	Standard seals		Viton	Viton	Viton	Viton	Viton	Viton
	Standard cable		N/A	N/A	N/A	N/A	1m PUR	1m PUR
	Configuration		PC via USB	PC via USB	fixed	fixed	fixed	fixed
	Display		N/A	6-digit LCD (7.9mm)	N/A	N/A	N/A	N/A
APPROVALS	1/4" BSP		Yes	Yes	Yes	Yes	N/A	N/A
	1/4" NPT		adaptor	adaptor	Yes	Yes	N/A	N/A
	1/2" BSP		adaptor	adaptor	Yes	Yes	N/A	N/A
	1/2" BSP flush		adaptor	adaptor	Yes	Yes	N/A	N/A
APPROVALS	Other to order		Yes	Yes	Yes	Yes	N/A	N/A
	Open or closed ends		N/A	N/A	N/A	N/A	Yes	Yes
	ATEX		N/A	N/A	Yes	Yes	Yes	Yes
APPROVALS	UKEX		N/A	N/A	Yes	Yes	Yes	Yes
	IEC Ex		N/A	N/A	N/A	Yes	Yes	Yes

## The versatility of our displays

### Status offer display and mounting solutions for every need, at every level

We will configure and build to your exact requirements - including choice of cap, blanking plugs, and entry ports (½" BSP, M20, M24, M16)

Please note that supplied with the DM650, at no extra cost:

- Relay option.
- Datalogging capability.

### Using our DM650 as an example:



#### SCH4

Here a DM650 is mounted in our standard SCH4 head - a robust ABS plastic enclosure, which is suitable for most purposes.



#### SCH15

A DM650 is mounted in chrome-finished cap, for use with our SCH15 stainless steel enclosure, when extra strength and protection are needed.



#### SCH55

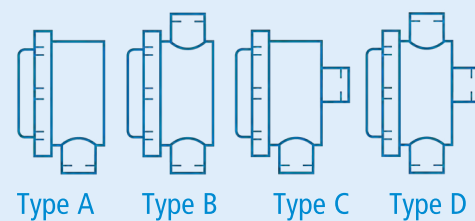
ATEX displays can be used with ATEX transmitters, within approved enclosures like our SCH55, to create cost-effective ATEX assemblies.

Every assembly can function either as a remote battery-powered display, or if combined with one of our in-head transmitters, as a cost-effective loop-powered system.

For our range of in-head transmitters, see pages 16 - 21.



Various entry port combinations can be specified:



Blanking plugs and higher caps are also available.

**Further options** Check out our all-in-one displays - like the SEM710 or SEM320 - or create solutions using our panel meter range.

## Free software and apps

ALL SOFTWARE AND APPS ARE **FREE**

### APPS

### Accessing and processing data from Status products couldn't be simpler. Or cheaper.

We offer a comprehensive range of free apps for tablets and smart devices, plus free SpeedLink software for Windows PC.

### RTD

#### RTD Pt100 Converter

converts between Ohms, Pt100, Pt500, Pt1000, °Celsius and °Fahrenheit.

### °C °F °K

#### Temperature Converter

converts temperature readings between °Celsius, °Fahrenheit and °Kelvin.

### TC

#### Thermocouple Converter

converts thermocouple and mV readings between °Celsius, °Fahrenheit and °Kelvin.

### Process to signal

#### Process to Signal

converts a process signal value, in any engineering unit, into a control signal in milliamps, millivolts, or volts. For use in temperature measurement, process control, and signal conditioning.

### NFC LogLink

#### NFC LogLink

for use with our DM670/DM650 series to download datalogs, manipulate data, then send via email and to the cloud.

### NFC Link

#### NFC Link

NFC Link is a free configuration utility compatible with the latest products from Status Instruments, allowing users to configure standard parameters for our DM650 and SEM710 instrumentation series. Visit our app shop to read more.

### USB ViewLink

#### USB ViewLink

using USB on-the-go, ViewLink connects directly to your Status devices, allowing you to view real-time live data, including input and output variables, TAG data and device-specific variables (such as a batch counter for the SEM1600F).

### PC

#### SpeedLink configuration software for Windows PC

Basic and advanced configuration software for Status instrumentation.



- Easy configuration, with the use of drop-down menus
- Quick-connect, for easy recognition of products
- Tools and help screens, to guide you through the process
- Basic and advanced function options in product
- Pre-set selections and custom type areas

Also, check out our **USB LogLink** datalogging software for selected products. See website for details.



# Solution overview

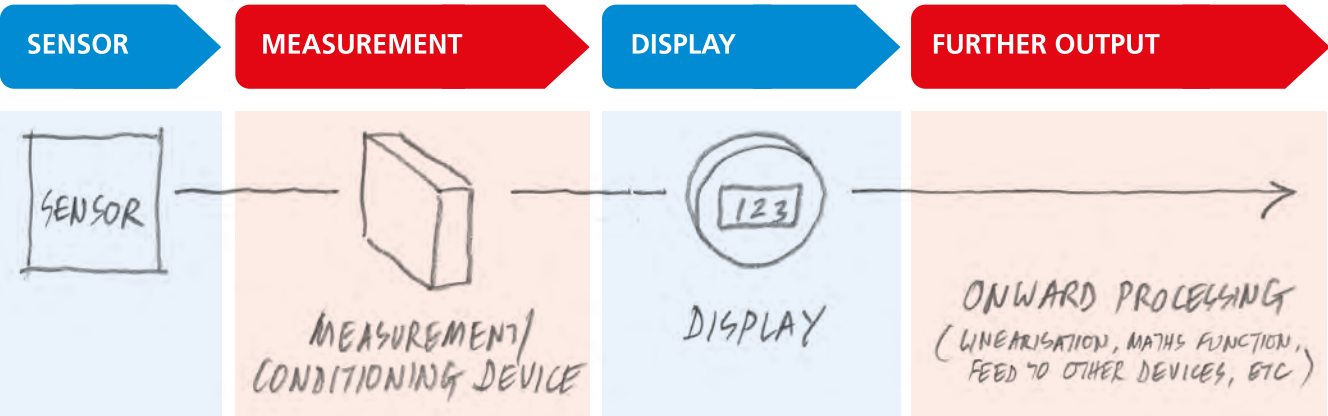
For every application, there is a Status product, and a practical solution.

We pride ourselves on being able to offer the kind of technical support that will help you diagnose opportunities, recognise the optimum solution and specify the appropriate Status products.

Every application contains a series of processes, which we look at as ‘journeys’, from source to final output.

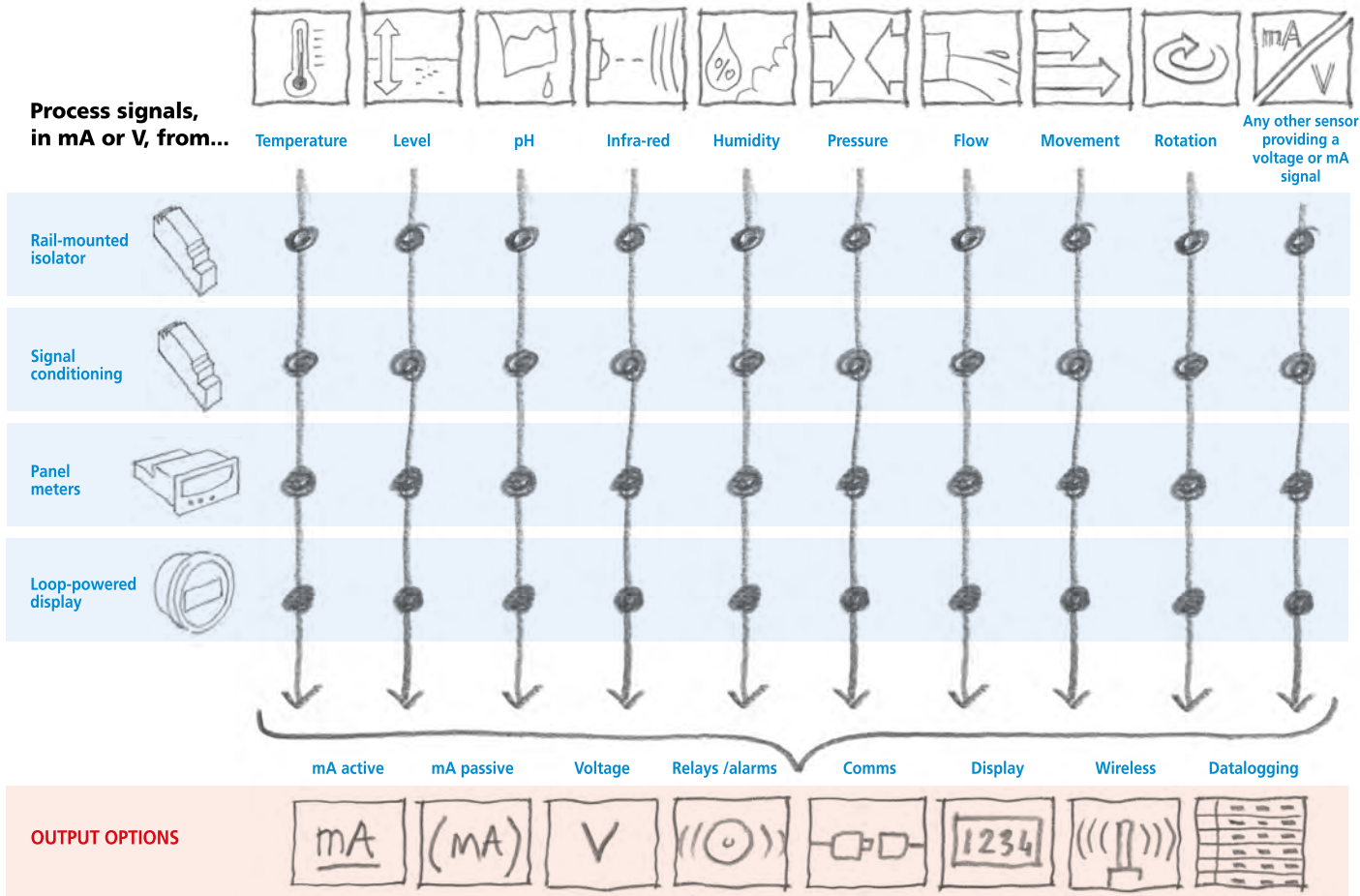
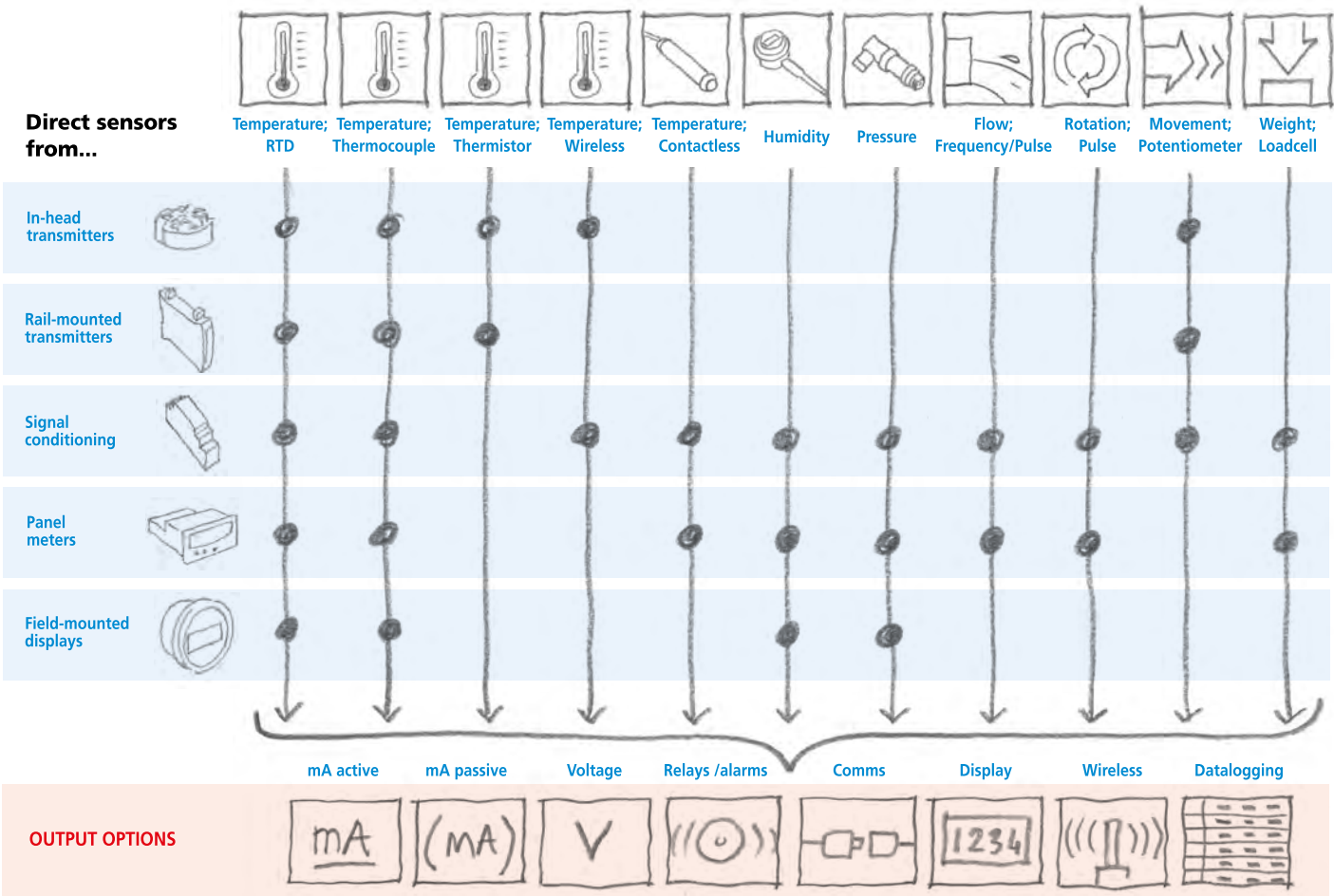
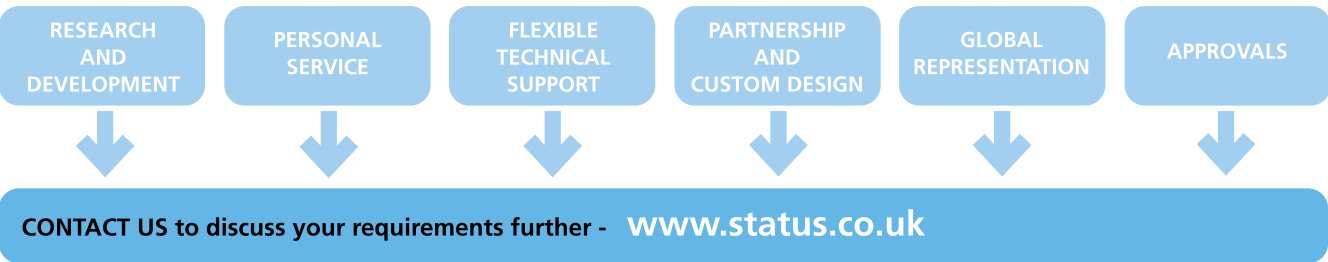
The basic principle is shown below, and opposite we show how Status can help you ‘journey’ from sensor output (or from any mA or V process signal) to arrive at the outcome you require.

By asking you a series of consultative questions, your needs can be analysed, mapped and assessed, then accommodated with products from the Status range.



We’re always there for you

We offer a service that we believe is second to none, with every facility and provision you could ever need. And all you have to do is ask.





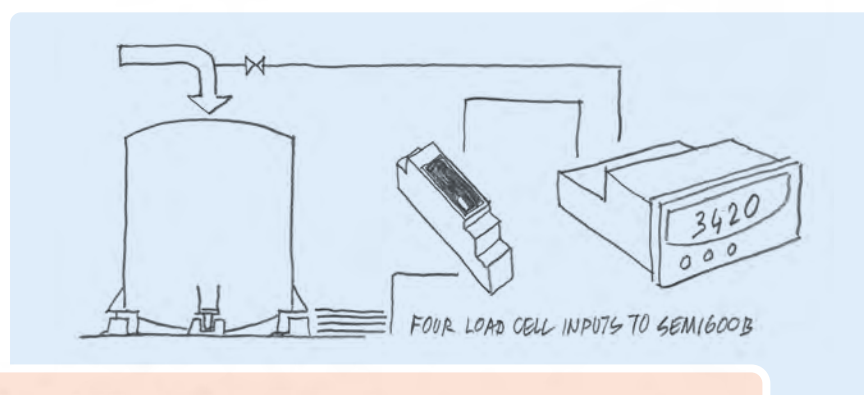
# The Application Guide



Industries, environmental conditions and circumstantial factors mean that although many applications for Status products may be broadly similar, they are rarely exactly the same. That's why we've developed a series of **Application Guides**, which not only help you identify the appropriate Status products for your needs, but show you how best to apply and adapt them to your circumstances, so you can retrieve, process and deliver all the data you need, precisely as you need it.

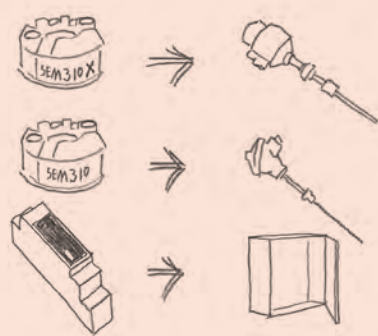
Visit our website to view our **Application Guide resources** - or call us, and we can discuss your requirements, and advise about a range of innovative solutions, that will deliver improved efficiency, real cost savings ... and total peace of mind.

Here are some examples of how our Application Guide can help and inform.



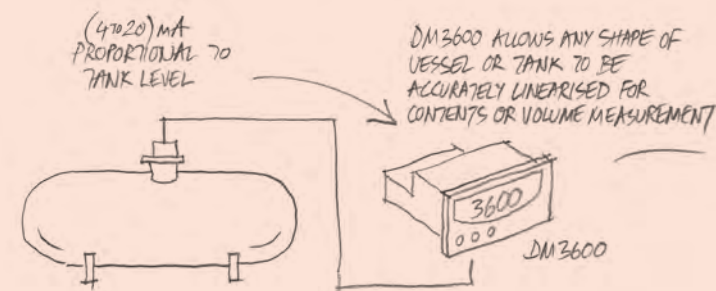
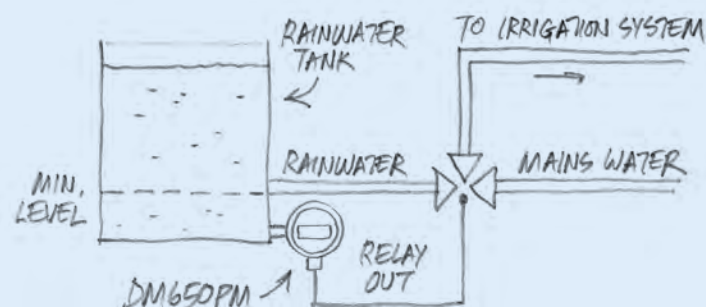
The weight of a tank mounted on 4 loadcells is measured by an SEM1600B, which takes their average output (equivalent to tank weight) and converts this into a voltage or (4 to 20) mA signal – in this example, for the DM3420 to measure as volume.

RTD TEMPERATURE MEASUREMENT  
THERMOCOUPLE HIGH TEMPERATURE MEASUREMENT  
POTENTIOMETER – ROTATIONAL MOVEMENT  
RESISTANCE – LINEAR MOVEMENT

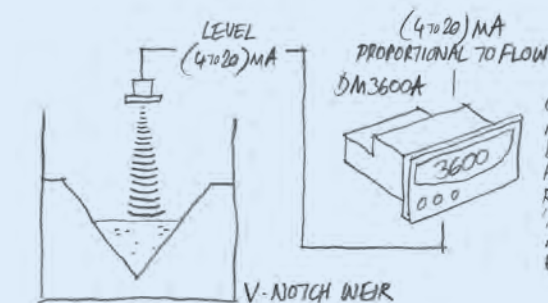


Our in-head transmitter range can accept RTD and thermocouple sensors as well as Ohmic, mV and potentiometer sensors. A sensor calibration function is provided to help minimise sensor error.

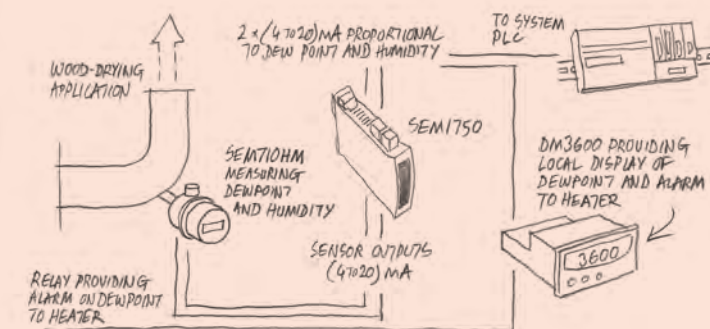
A DM650PM is measuring the water level in the tank via pressure. When the level is above the minimum then the rainwater is sent to the irrigation system.



The DM3600A can be used with almost any level sensor to measure 'head' upstream of a flume or weir. Standard software allows power 3/2 and 5/2 flow linearisation, giving a (4 to 20) mA output proportional to flow.

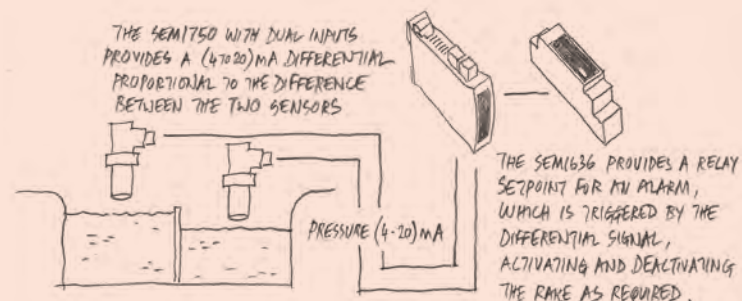
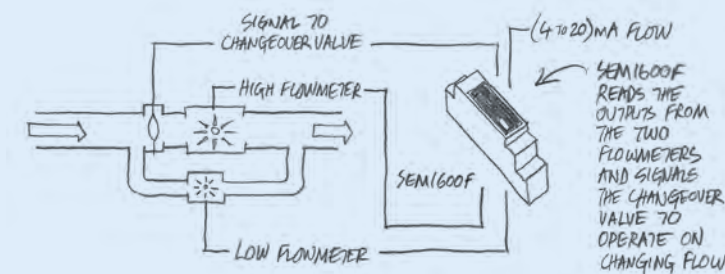


COMMON FLOW LAWS ARE STANDARD IN THE DM3600A. IT CAN BE PROGRAMMED SO A RELAY CLOSURE EVERY 'X' CUBIC METRES SENDS A SIGNAL FOR AN EXTERNAL TOTALISER.



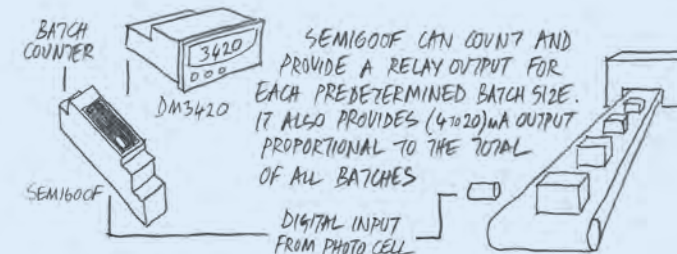
An SEM1750 powers the SEM710HM, and sends two loops to the panel meter and PLC for further control. The panel meter has its relay output programmed to alarm if the dewpoint reaches a critical level.

Accurate measurement of flow over a wide flow range can be problematic, as the turndown of the flowmeter could provide inaccurate measurement at extremes of span.



The SEM1750 can be used with almost any sensor to measure differential. In this common application in rivers and waterways, two level sensors measure level up- and down-stream of a weed screen.

An SEM1600F counting items on a belt. The product can be programmed to count each item that passes the digital sensor. When a number of readings equal to a batch size has gone through, a relay can switch.





# Legacy Products

These Status products, and those listed opposite, 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.

**In fact, we're happy to look at user requirements on a case-by-case basis, and will build unique products to special order (subject to MOQ).**

Discontinued product	Description	Replacement
DM500	Loop-powered LCD indicator	DM700
DM540X	ATEX field-mounted display	DM640X
DM440	Digital temperature indicator	DM650TM
DM4000U	Panel meter	DM3600U
DM4000A	Panel meter	DM3600A
DM4000C	Panel meter	DM4500F - most functions
DM660	Large Pt100 digital indicator	DM670TM
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
SEM110X	Analogue ATEX in-head transmitter	call us
SEM1100	Powered isolating voltage to current / current to voltage convertor	SEM1700
SEM1010	Provides isolated power for a transmitter derived from a powered loop.	SEM1700 (some functions)
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
SEM161 / 162	Humidity and temperature transmitter	SEM710HM
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 replacement for higher temperature version
SEM167H1C	Wall-mounted humidity transmitter with power supply and output options	SEM162
SEM167H1P	Duct-mounted humidity transmitter with power supply and output options	SEM162
SEM167H1R	Remote mount humidity transmitter with power supply and output options	SEM162
SEM205X	ATEX temperature transmitter	TTR200X
SEM210 MKI	Universal in-head temperature transmitter	SEM210 MKII
SEM213P	Manual push-button Pt100 4-20mA DIN rail temperature transmitter	SEM1605/P
SEM213TC	Manual push-button thermocouple 4-20mA DIN rail temperature transmitter	SEM1605/TC
SEM215	PC-programmable universal 4-20mA DIN rail temperature transmitter with user linearisation feature	SEM1615
SEM230X	ATEX DIN-rail universal transmitter	call us
SEM310 MKI	Universal HART in-head temperature transmitter	SEM310 MKII
SEM315 MKI	DIN rail Universal HART temperature transmitter	SEM315 MKII

Older products still available		
HTR200/1V	MA head-mounted RTD, potentiometer, resistance transmitter with voltage output	
DM3430	High-voltage/current true RMS panel meter	
DM4500	Panel meter series	
DM650VI	Voltage process indicator with relay	