

Tempcon Instrumentation Ltd  
Ford Lane Business Park  
Ford, West Sussex  
BN18 0UZ, UK  
[www.tempcon.co.uk](http://www.tempcon.co.uk)  
Call: +44 (0)1243 558270



[www.tempcon.co.uk](http://www.tempcon.co.uk)

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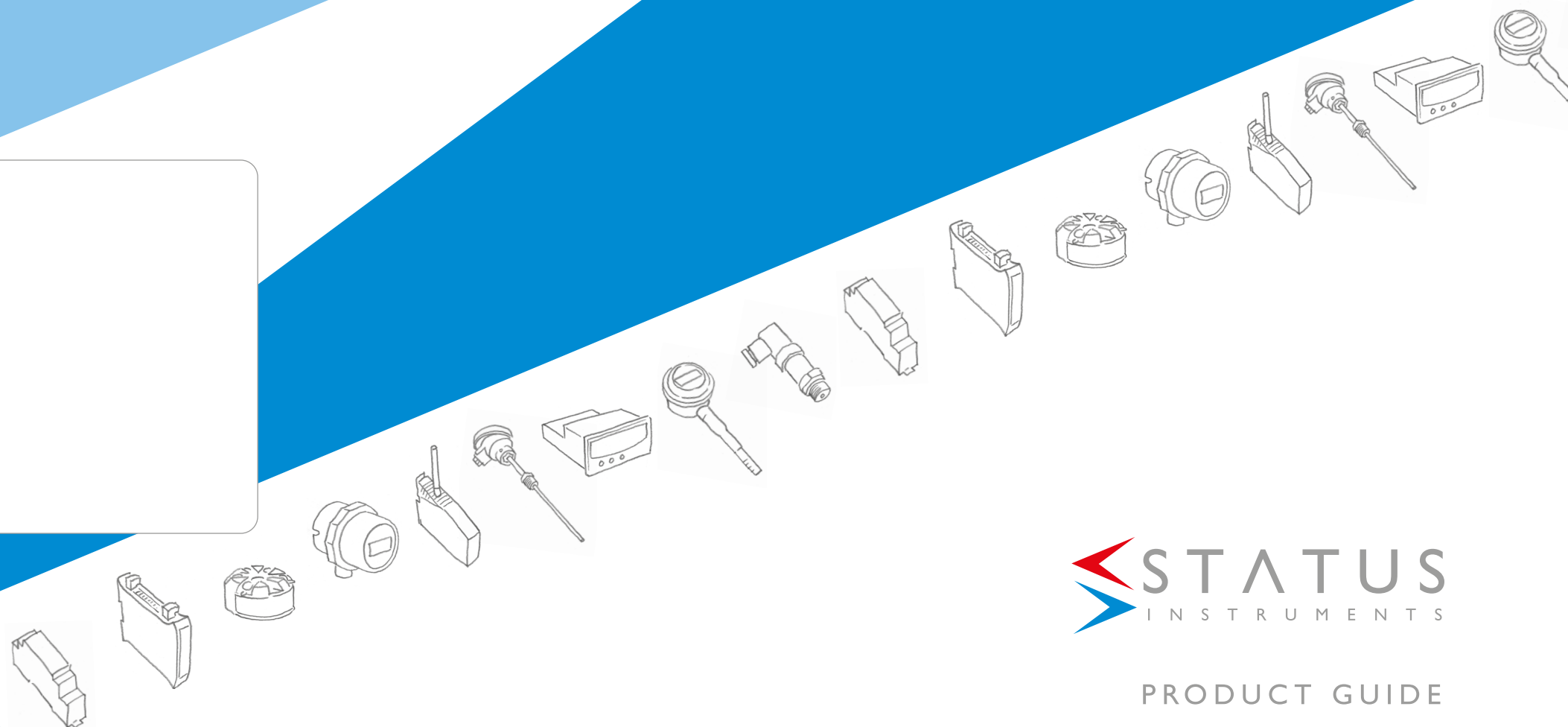
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52-715-2170-10



PRODUCT GUIDE  
EDITION **XXIV**

[www.tempcon.co.uk](http://www.tempcon.co.uk)



# Welcome

to the latest Status Instruments Product Guide

Here at Status we've been designing, manufacturing and supplying top-quality process instrumentation for over 40 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**.

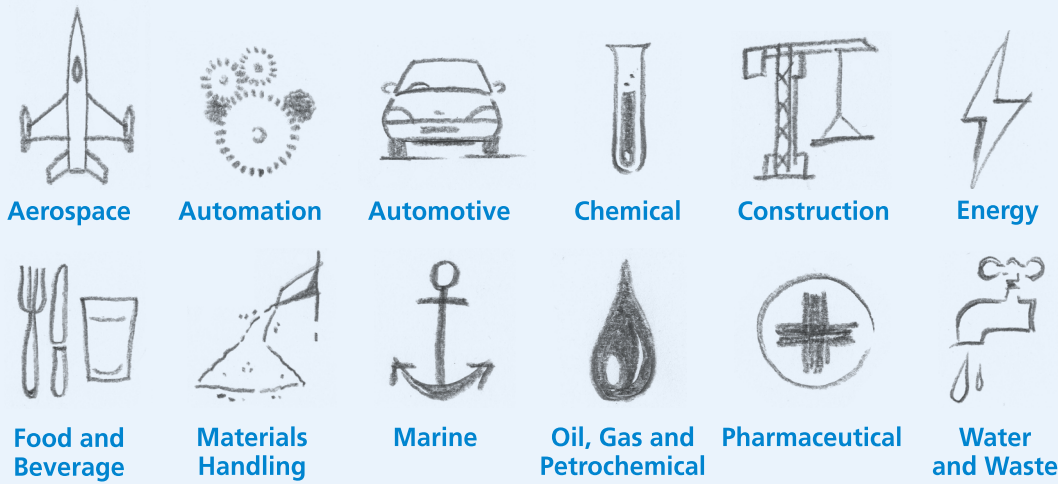
### Quality counts

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



**Calibration Service** We recommend that all instrumentation should be re-calibrated every 12 months. Please contact us to discuss this further, or visit [www.status.co.uk](http://www.status.co.uk) for more details.

# Contents




















### How to use this Guide

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

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

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

*Please note: some sections have been re-ordered for 2024.*

Product group	Page	Typical warranty
 Signal conditioning	4	5 years
 In-head transmitters	12	5 years
 In-head transmitters, analogue	16	5 years
 Rail-mounted transmitters	18	5 years
 In-head and DIN-rail transmitters, voltage output	20	5 years
 Temperature transmitters and loop-powered displays	22	5 years
 Temperature transmitters - other packages	24	5 years
 Field-mounted indicators and switches - pressure	26	5 years
 Probe assemblies	28	1 year on sensor
 Humidity and temperature transmitters, indicators and switches	30	5 years 1 year on sensor
 Panel meters	32	5 years
 Wireless transmitters	34	1 year 1 year on sensor
 Field-mounted indicators and switches - pressure	36	5 years
 Pressure transmitters	38	1 year
 Versatility of displays	40	
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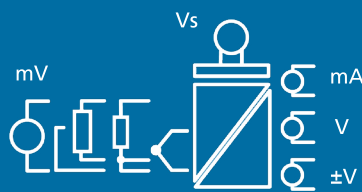


# Signal conditioning

SEM  
1600T



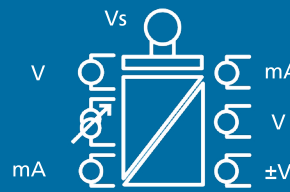
RTD, thermocouple, potentiometer, resistance or mV input.  
active / passive mA or voltage output.



SEM  
1600VI



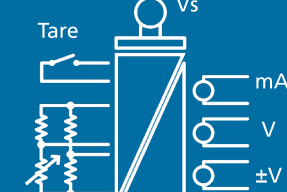
mA / voltage conditioner with active / passive mA or voltage input and outputs.



SEM  
1600B



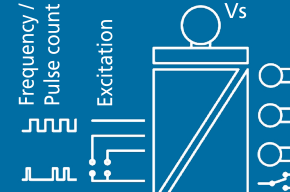
Load cell input signal conditioner with active / passive mA or voltage output.



SEM  
1600F



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



## INPUT

Pt100  
RTD other types  
Resistance  
Potentiometer  
Thermocouple

Voltage  
Current  
Frequency  
Pulse counter  
Load cell

Yes  
Yes  
(10 to 10,500)  $\Omega$   
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

## 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

## APPROVALS

EMC / UKCA

EN BS 61326

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

EN BS 61326

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

EN BS 61326

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  
K Factor meter correction  
Yes  
(-30 to +70) °C  
Universal, (10 to 48) VDC  
and (10 to 32) VAC  
Yes - output  
Yes  
PC  
Yes  
Yes  
17.5 mm

EN BS 61326

# 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

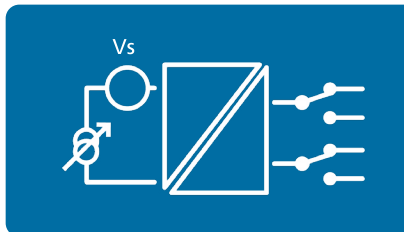
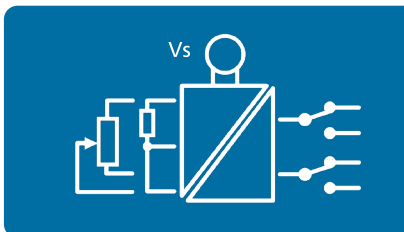
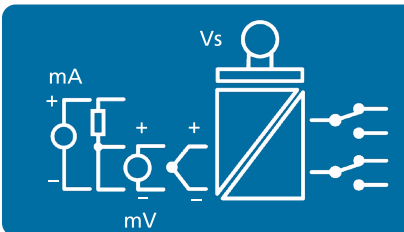
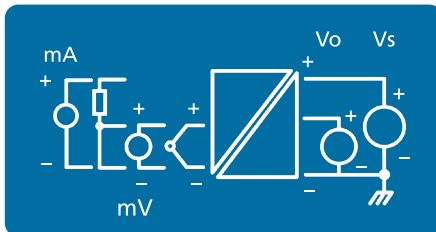


RTD, potentiometer, resistance input, with 2 change-over relay outputs.

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

## APPROVALS

EMC / UKCA

EN BS 61326

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

EN BS 61326

Yes
Yes
(10 to 10,500) Ω
1k Ω to 100 kΩ auto sense
N/A
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

EN BS 61326

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

EN BS 61326

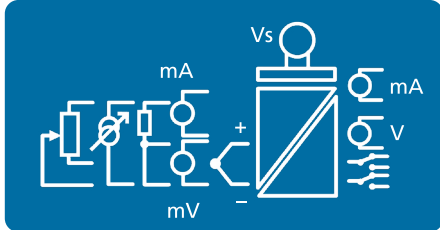


# Signal conditioning



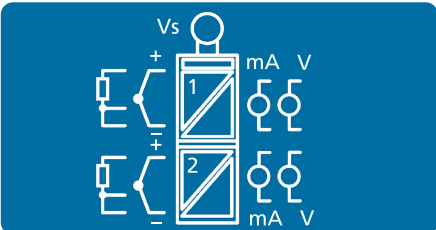
SEM  
1700

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



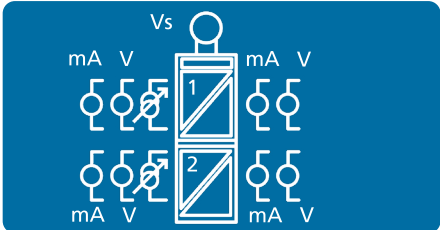
SEM  
1720

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



SEM  
1750

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



INPUT	TYPE
	Pt100
	RTD other types
	Resistance
	Potentiometer
	Thermocouple
	Voltage
	Current
	Frequency
	Pulse Counter
OUTPUT	Load Cell
	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	EMC / UKCA
	SIL

Single channel
Yes
N/A
(20 to 400) $\Omega$
1 k $\Omega$ to 1 M $\Omega$
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 / passive)
N/A
N/A
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
EN BS 61326
Yes (see website for more details)

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
N/A
N/A
mA - active / passive
Voltage
Optional programmable maths outputs to include average, sum and splitter functions
Yes
N/A
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
EN BS 61326
N/A

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
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
EN BS 61326
N/A

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*



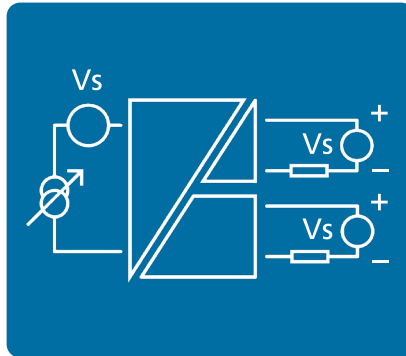
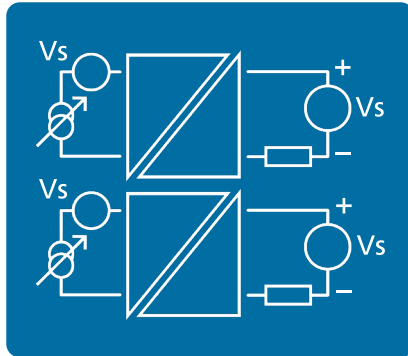
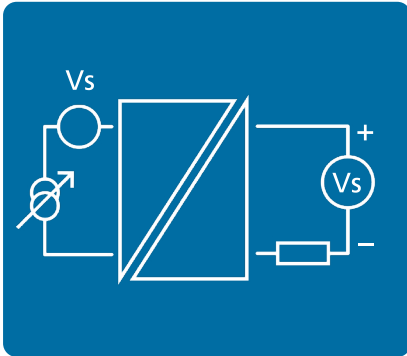
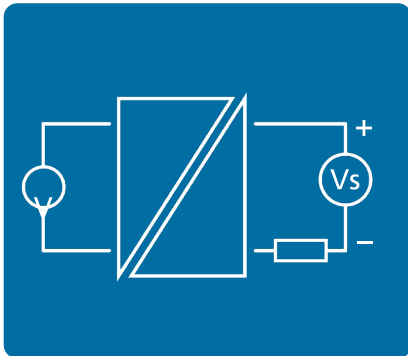
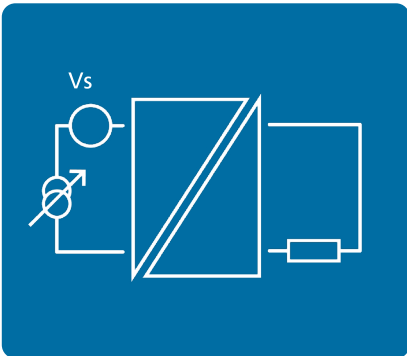
Isolating current loop booster.



(4 to 20) mA current loop isolator.



Isolating current loop splitter.

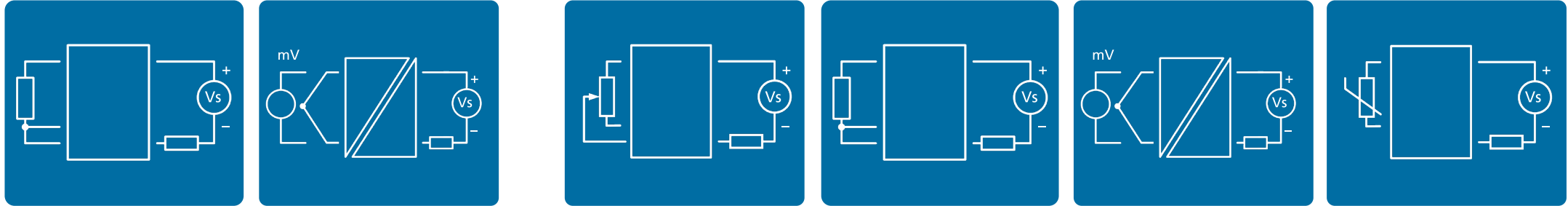


INPUT	Type	(4 to 20) mA passive	DC voltage	(4 to 20) mA passive	2 x (4 to 20) mA passive	(4 to 20) mA passive
	Range	(4 to 20) mA	Any between (-10 to 100) VDC	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA
OUTPUT		(4 to 20) mA active	(4 to 20) mA passive	(4 to 20) mA passive	2 x 2-wire (4 to 20) mA passive	2 x 2-wire (4 to 20) mA passive
GENERAL	Volt drop	Input 5.0 VDC typical	N/A	Input and output 2.7 VDC	Input and output 2.7 VDC	Input and outputs 5.0 VDC
	Maximum loop supply	Input 35 VDC	Output 30 VDC	Input and output 35 VDC	Input and output 35 VDC	Input and output 32 VDC
	Isolation	500 VDC	500 VDC	500 VDC	500 VDC	500 VDC
	Maximum load	Output 500 Ω	N/A	Output 1200 Ω	Output 1200 Ω	Outputs 1200 Ω
	Power supply	Input loop	Output loop	All loops	All loops	All loops
	Ambient operating temperature	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C
	Width	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm
APPROVALS	EMC / UKCA	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

**In-head  
transmitters**  
(4 to 20) mA output



SEM203P: Pt100 transmitter; push-button configuration.  
SEM203TC: Thermocouple transmitter; push-button configuration.  
SEM203W: Potentiometer transmitter; push-button configuration.  
SEM206P: Pt100 transmitter; PC configuration.  
SEM206TC: Thermocouple transmitter; PC configuration.  
SEM206TH: Thermistor transmitter; PC / push-button



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	Yes - Pt500, Pt1000
	Resistance	N/A	N/A	N/A	N/A	N/A	N/A
	Potentiometer	N/A	N/A	1 k $\Omega$ to 100 k $\Omega$ auto sense	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
GENERAL	Thermistor	N/A	N/A	N/A	N/A	N/A	Yes
	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
APPROVALS	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	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

(4 to 20) mA output

INPUT

OUTPUT

GENERAL

APPROVALS

TYPE

Pt100  
Other RTD sensors  
Resistance  
Potentiometer  
Thermocouple type

Voltage  
Current  
Thermistor

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

ATEX  
UKEX  
IEC Ex  
Vibration test  
EMC / UKCA  
SIL

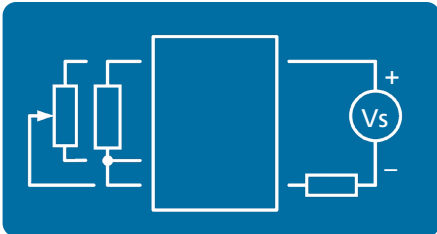
TTR  
200



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) Ω  
1 kΩ to 100 kΩ auto sense  
N/A  
N/A  
N/A  
N/A

(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

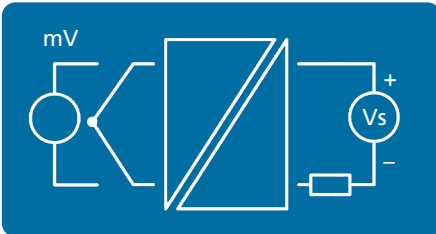
TTC  
200



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

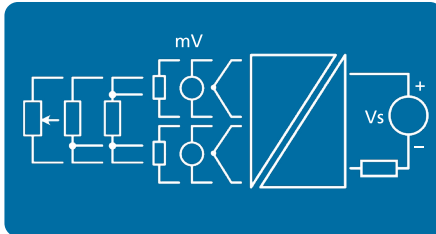
SEM  
210 MKII



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

(4 to 20) mA

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

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

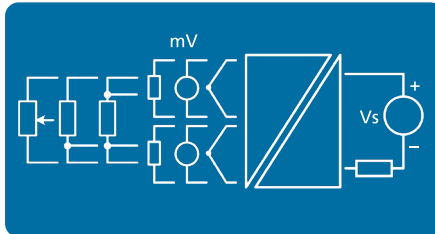
SEM  
310 MKII



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

(4 to 20) mA HART

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

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



# In-head transmitters, analogue

(4 to 20) mA output

for applications that require a rapid response



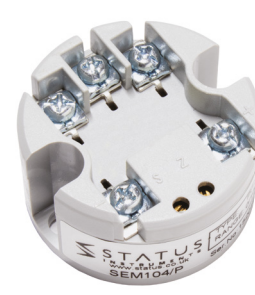
SEM 110P

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



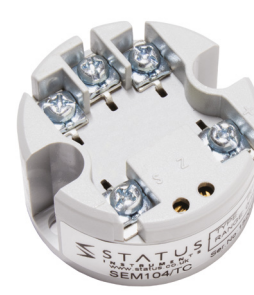
SEM 110TC

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



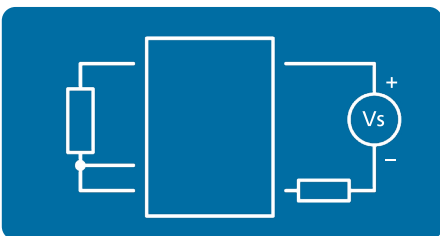
SEM 104P

Analogue (4 to 20) mA Pt100 transmitter.

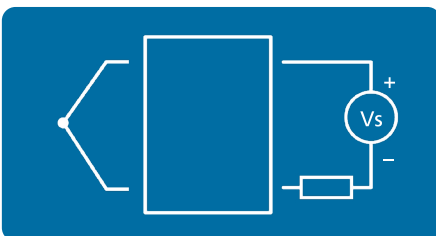


SEM 104TC

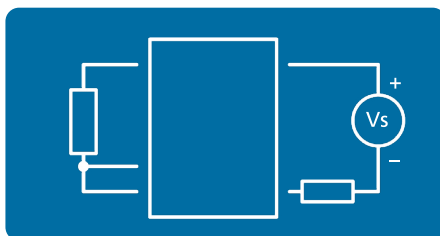
Analogue (4 to 20) mA thermocouple transmitter.



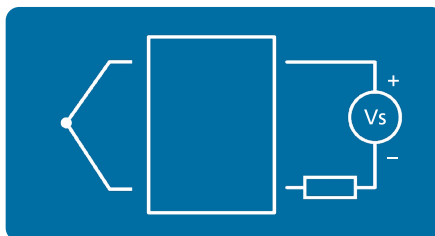
In-head



In-head



In-head



In-head

## INPUT

### TYPE

Pt100

Pt100 difference

Resistance

Potentiometer

Thermocouple type

Voltage

Yes - 2, 3 wire

Option D

Option Z

Option W

N/A

N/A

N/A

N/A

N/A

N/A

K, J, T, R, S

N/A

Yes - 2, 3 wire

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

K, J, T

(-10 to +70) mV

## OUTPUT

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

(4 to 20) mA

## GENERAL

Output zero/span alignment to input

User offset

Display

Ambient operating

Power supply

Configuration

Width / diameter

Yes - potentiometer

N/A

N/A

(0 to +70) °C

(10 to 45) VDC

Factory-set

53 mm dia.

Yes - potentiometer

N/A

N/A

(0 to +70) °C

(10 to 45) VDC

Factory-set

53 mm dia.

Yes - potentiometer

N/A

N/A

(0 to +70) °C

(10 to 30) VDC

Solder link / potentiometer

43 mm dia.

Yes - potentiometer

N/A

N/A

(0 to +70) °C

(10 to 30) VDC

Solder link / potentiometer

43 mm dia.

## APPROVALS

ATEX

EMC / UKCA

Yes

EN BS 61326

Yes

EN BS 61326

N/A

EN BS 61326

N/A

EN BS 61326

Rail-mounted transmitters



SEM 1605P Pt100 transmitter; PC configuration.

SEM 1605TC Thermocouple transmitter; PC configuration.

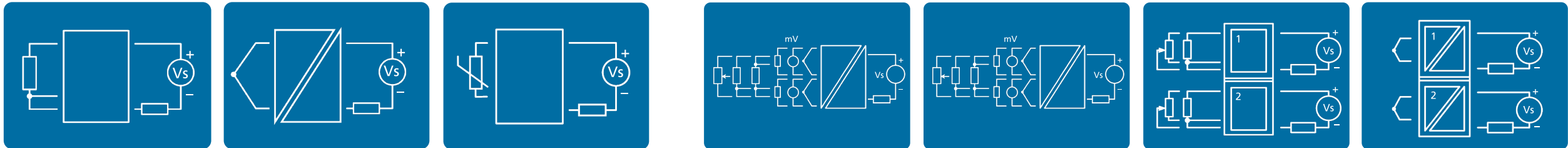
SEM 1605TH Thermistor transmitter; PC configuration.

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.

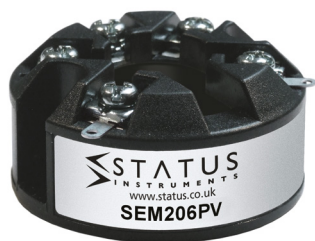
SEM 1801/2XTC Thermocouple transmitter; PC configuration. IS-approved.



TYPE		Single channel	Single channel	Single channel	Dual input	Dual input	Single or dual channel	Single or dual channel
INPUT	Pt100	Yes - 2, 3 wire	N/A	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 - Pt500, Pt1000	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Resistance	N/A	N/A	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω	N/A	N/A
	Potentiometer	N/A	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	N/A	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	N/A	(-1000 to +1000) mV	(-1000 to +1000) mV	N/A	(-100 to +200) mV
OUTPUT	Current	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thermistor	N/A	N/A	Yes	N/A	N/A	N/A	N/A
		(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA HART	(4 to 20) mA	(4 to 20) mA
GENERAL	Isolation	N/A	Yes	N/A	Yes	Yes	N/A	N/A
	Custom linearisation	N/A	N/A	N/A	Yes	Yes	Yes - resistance / potentiometer	Yes
	Output zero/span alignment to input	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	User offset	Yes	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	(-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	(10 to 30) VDC
	Configuration	PC	PC	PC	PC	PC / HART configurator	PC	PC
APPROVALS	Width	12.5 mm	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	N/A	Yes	Yes
	UKEX	N/A	N/A	N/A	N/A	N/A	Yes	Yes
	IEC Ex	N/A	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	EN BS 61326
		N/A	N/A	N/A	Yes (see website for more details)	Yes (see website for more details)	N/A	N/A

In-head and DIN-rail temperature transmitters

Voltage output



SEM206PV

Pt100 transmitter; PC configuration.



SEM1605PV

Pt100 transmitter; PC configuration.



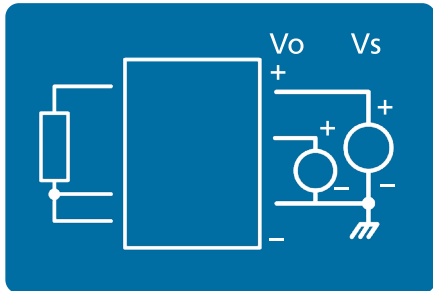
SEM206THV

Thermistor transmitter; PC / push-button configuration.

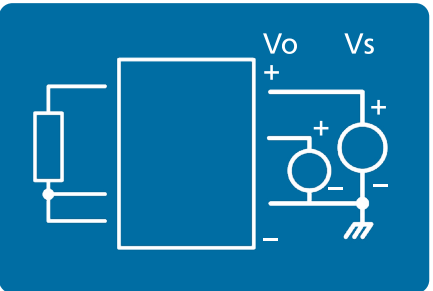


SEM1605THV

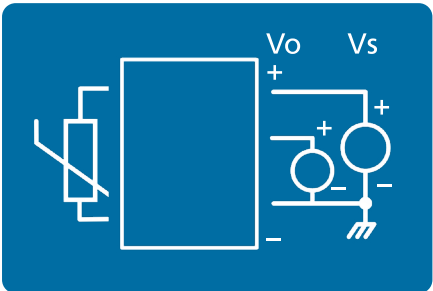
Thermistor transmitter; PC configuration.



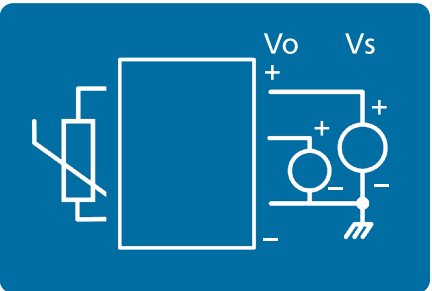
In-head



Single channel



In-head



Single channel

INPUT	TYPE				
	Pt100		Yes - 2, 3 wire	Yes - 2, 3 wire	N/A
	Other RTD sensors		N/A	Yes	Yes - Pt1000, Pt500
	Resistance		N/A	N/A	N/A
	Potentiometer		N/A	N/A	N/A
	Thermocouple type		N/A	N/A	N/A
	Voltage		N/A	N/A	N/A
	Current		N/A	N/A	N/A
	Thermistor		N/A	N/A	Yes
OUTPUT			Voltage (0 to 10) V	Voltage (0 to 10) V	Voltage (0 to 10) V
GENERAL	Isolation		N/A	N/A	N/A
	Custom linearisation		N/A	N/A	N/A
	Output zero/span alignment to input		N/A	Yes	Yes
	User offset		Yes	Yes	Yes
	Display		N/A	N/A	N/A
	Ambient operating		(-40 to +85) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply		(15 to 30) VDC	(15 to 30) VDC	(15 to 30) VDC
	Configuration		PC	PC	PC
	Width / diameter		43 mm dia.	12.5 mm	43 mm dia.
APPROVALS	ATEX		N/A	N/A	N/A
	UKEX		N/A	N/A	N/A
	IEC Ex		N/A	N/A	N/A
	Vibration test		N/A	N/A	N/A
	EMC / UKCA		EN BS 61326	EN BS 61326	EN BS 61326

# Temperature transmitters and loop-powered displays

DM650LP could be used with in-head transmitters or an existing loop.

Please also see DM720 for compact panel-mount option (see page 34).



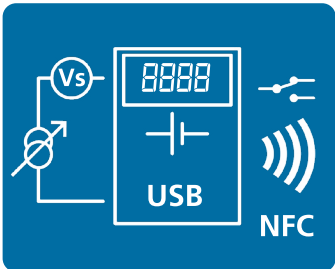
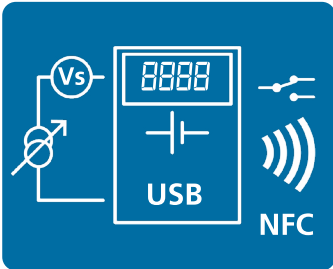
DM 650LP



DM 650LP/55

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

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



## Sensor / surface mount

## Sensor / surface mount

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

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

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

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

(-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
SCH55
IP67
USB and NFC (some functions)

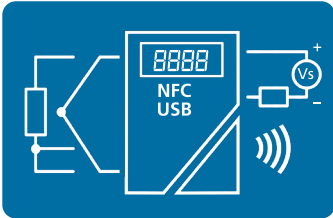
EN BS 61326
N/A

EN BS 61326
N/A



SEM 710TM

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



## In-head (SCH4) Sensor / surface mount

Yes - 2, 3 wire
Yes - 2, 3 wire
N/A
N/A
K, J, N, E, T, R, S, B
N/A
(0 to 25) mA
N/A

(0 to 23) mA Sense
--------------------

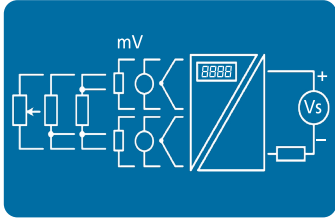
Yes
Yes - mA
N/A
Yes - temp
6-digit LCD (7.9 mm)
(-20 to +70) °C
(15 to 30) VDC
PC / push-button / NFC
Datalogging via NFC / USB
(see datasheet)

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



SEM 320/55

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



## In-head, dual input (SCH55) Sensor / surface mount

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

(4 to 20) mA HART
-------------------

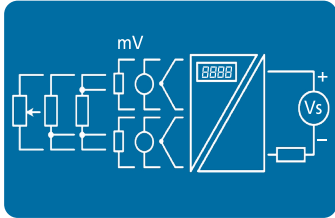
Yes
Yes
Yes
Yes
Multifunctional LCD
(-25 to +85) °C
(12 to 30) VDC
PC and HART configurator
N/A
(see datasheet)

N/A
N/A
N/A
EN BS 61326
Yes (see website for more details)



SEM 320X/55

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



## In-head, dual input (SCH55) Sensor / surface mount

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

(4 to 20) mA HART
-------------------

Yes
Yes
Yes
Yes
Multifunctional LCD
(-25 to +85) °C
(12 to 30) VDC
PC and HART configurator
N/A
(see datasheet)

Yes - Ex ia, Ex D
Yes - Ex ia, Ex D
Yes - Ex ia, Ex D
EN BS 61326
Yes (see website for more details)

All-in-one transmitter and display

## Mechanical

Pt100  
Other RTD sensors  
Resistance  
Potentiometer  
Thermocouple type

Voltage  
Current  
Thermistor

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

ATEX  
UKEX  
IEC Ex  
EMC / UKCA  
SIL

## INPUT

## Mechanical

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

EMC / UKCA  
ATEX

## INPUT

## OUTPUT

## GENERAL

## APPROVALS

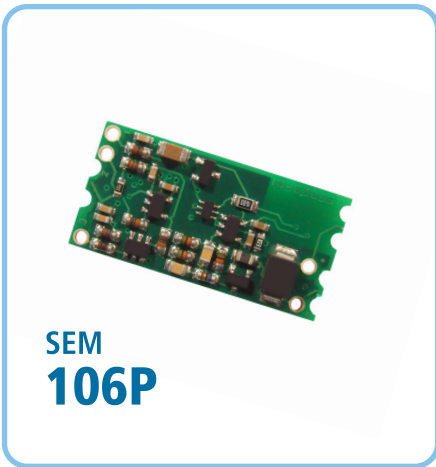


Temperature transmitters

Other packages



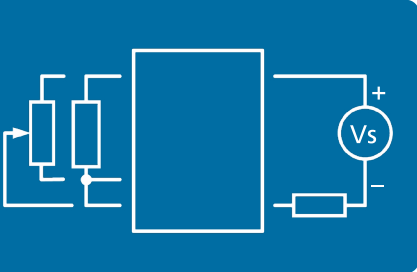
HTR 200/1  
MA head-mounted RTD, potentiometer, resistance transmitter.



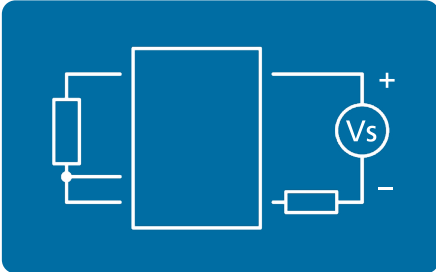
SEM 106P  
OEM transmitter - build into your own device.



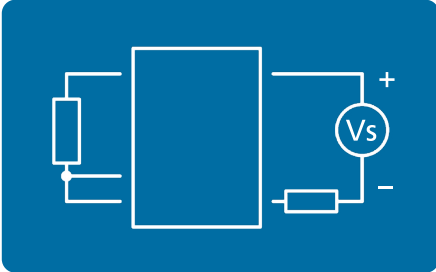
STA 206P  
Space-saving 'all-in-one' Pt100 sensor and transmitter.



In-head



PCB Board



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
-------------

(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
-------------

(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  
and switches

- temperature

The DM650 series has the sensor supplied separately.



DM  
650TM

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



DM  
650XTM

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



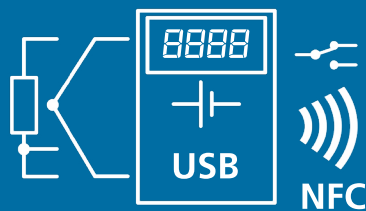
DM  
665TM

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

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

6-digit LCD (7.9 mm)

Yes - 1 relay

USB / NFC

Yes

Yes - up to 5000 points

Yes - via datalogging

(-30 to +70) °C

Battery 3.6 V lithium

2 years typical

SCH4

IP67

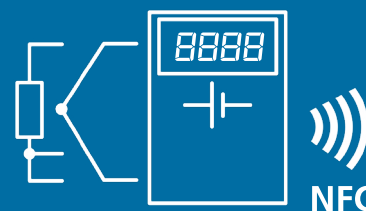
USB

N/A

N/A

N/A

EN BS 61326



Sensor / surface mount

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

6-digit LCD (7.9 mm)

N/A

NFC

No

Yes - up to 1500 points

Yes - via datalogging

(-30 to +70) °C

Battery 3.6 V lithium

2 years typical

SCH4

IP67

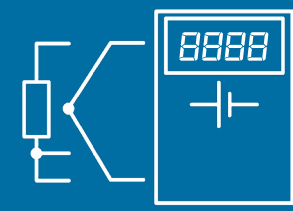
Push-button and NFC (some functions)

Yes

Yes

Yes

EN BS 61326



Sensor / surface / panel mount

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

6-digit LCD (15.8 mm)

N/A

N/A

N/A

N/A

Yes

(-30 to +70) °C

2 x AA 1.5V alkaline, or lithium

2 years typical, depending on battery type

Stainless steel 100mm diameter

IP65

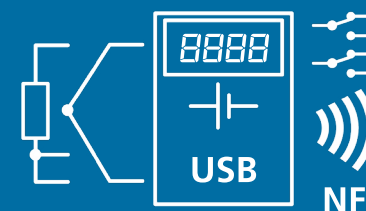
Push-button

N/A

N/A

N/A

EN BS 61326



Sensor / surface / panel mount

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

6-digit LCD (15.8 mm)

Yes - 2 relays

USB / NFC

Yes

Yes - up to 5000 points

Yes, and relay condition

(-30 to +70) °C

Battery 3.6 V lithium

2 years typical

Stainless steel 100mm diameter

IP65

USB

N/A

N/A

N/A

EN BS 61326

INPUT

Mechanical

Pt100
Thermocouple
RTD - other options
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
UKEX
IEC Ex
EMC / UKCA

# Probe assemblies



(typical examples)

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

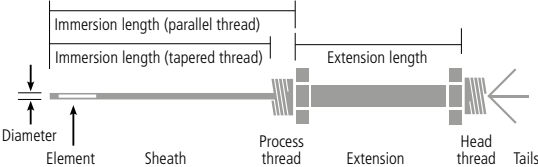
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

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

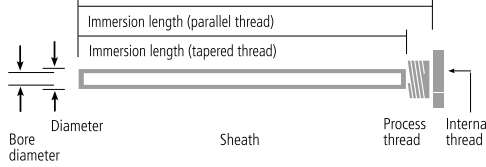
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

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 15



DM  
650TM  
Battery-powered  
range. See page 26



DM  
670TM  
Battery-powered  
range. See page 27



DM  
650LP  
Loop-powered  
range. See page 22



SEM  
710TM  
Loop-powered  
transmitter with  
display. See page 23

## Connection blocks



## Heads



SCH4  
ABS plastic



SCH11  
Aluminium  
Ask us about  
our Ex ia connection heads



SCH15  
Stainless steel

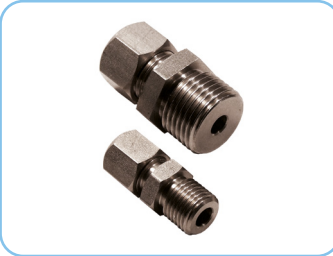


SCH55  
Stainless steel /  
Aluminium  
Ex d and Ex ia  
We are certified to supply Ex d  
and Ex ia probe assemblies



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



# Humidity and temperature transmitters, indicators and switches



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



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

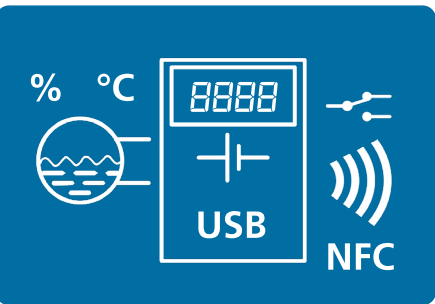
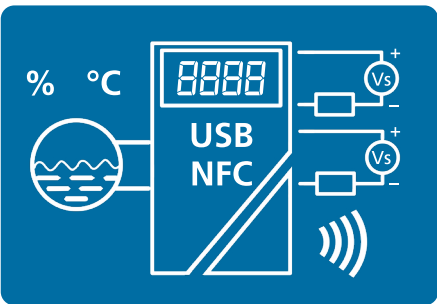
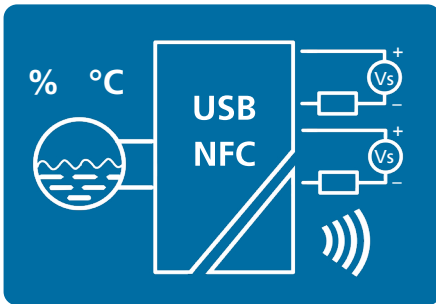
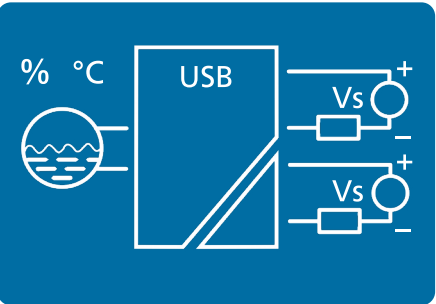


Dual-channel humidity / temperature transmitter with display. Duct, wall or remote mount.  
**Note: replaceable sensors**



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

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



## INPUT

Temperature range

(-30 to +70) °C

Humidity (RH)

(10 to 90) %

## BASE ACCURACY

Temperature

±0.5 °C

Humidity (RH)

±3% RH

## OUTPUT

Output channels

2 x (4 to 20) mA

Datalogging

N/A

Output choices: Temperature

Default

Humidity

Default

Dewpoint

Programmable

ΔTd - difference between dewpoint temperature and temperature

Programmable

Direct thermistor option

Yes - single channel option only

Data download

N/A

## GENERAL

Plug-in sensor

No

Mounting option, cable / sensor length

Wall - 120 mm  
Duct - 120, 250 mm

Display

N/A

Configuration

PC

Power supply

(10 to 30) VDC \*

Ambient operating temperature (electronics, not sensor)

(-30 to +70) °C

## APPROVALS

EMC / UKCA

EN BS 61326

Yes

Wall - 110 mm  
Duct - 120, 250 mm

N/A

PC and NFC (some functions)

(10 to 30) VDC \*

(-30 to +70) °C

EN BS 61326

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

EN BS 61326

Yes

Wall - 110 mm  
Duct - 120, 250 mm

6-digit LCD (7.9mm)

PC and NFC (some functions)

Battery - 3.6V lithium 2 years life typical

(-30 to +70) °C

EN BS 61326



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.



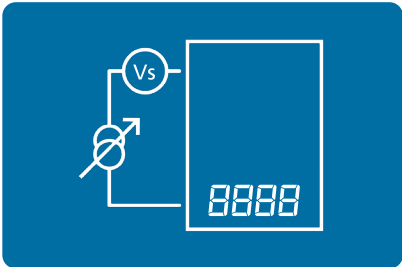
DM 3600U

6-digit universal panel meter.

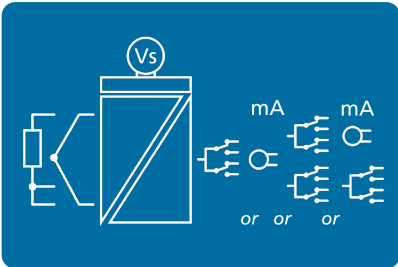


DM 3600A

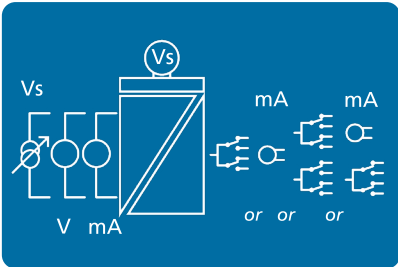
6-digit universal panel meter with rate /totaliser.



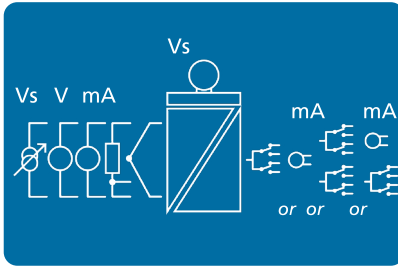
(48 x 24) mm panel mount



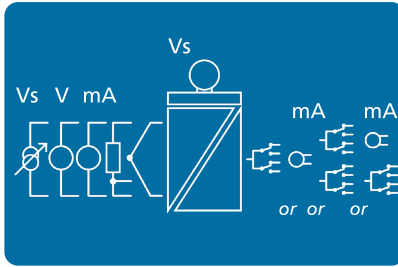
(96 x 48) mm panel mount



(96 x 48) mm panel mount



(96 x 48) mm panel mount



(96 x 48) mm panel mount

INPUT

Mechanical

Pt100	N/A
Thermocouple	N/A
Current	Yes (passive)
Voltage	N/A
Frequency / pulse	N/A
Remote digital inputs	N/A
User linearisation	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
Display	4-digit LED 10 mm
Ambient operating	(-10 to +60) °C
Power supply	(4 to 20) mA loop
Loop power supply	N/A
Sensor excitation	N/A
Configuration	Push-button
Max / min display	N/A
Comms	N/A
TFML maths functions	N/A

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

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

Isolation	Yes
Display	6-digit LED 14.2 mm
Ambient operating	(-30 to +60) °C
Power supply	(20 to 35) VDC <b>or</b> (90 to 253) VAC
Loop power supply	Input, output (option)
Sensor excitation	N/A
Configuration	Push-button / comms option
Max / min display	Yes
Comms	Option
TFML maths functions	Yes - with comms

Isolation	Yes
Display	6-digit LED 14.2 mm
Ambient operating	(-30 to +60) °C
Power supply	(20 to 35) VDC <b>or</b> (90 to 253) VAC
Loop power supply	Input, output (option)
Sensor excitation	N/A
Configuration	Push-button / comms option
Max / min display	Rate / total
Comms	Option
TFML maths functions	Yes - with comms

APPROVALS

EMC / UKCA

EN BS 61326

EN BS 61326

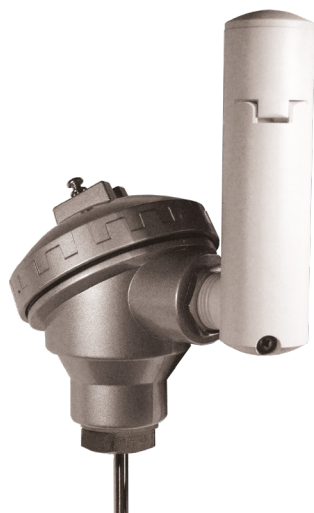
EN BS 61326

EN BS 61326

EN BS 61326

# Wireless transmitters

WTX  
700



Universal head-mounted wireless transmitter

WRX  
900 / 04

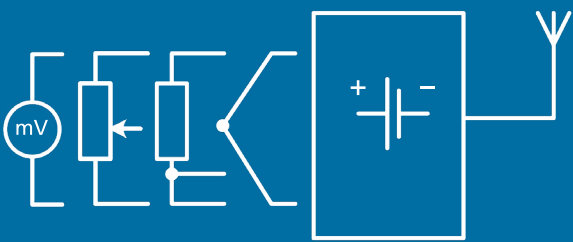


Wireless receiver for up to 16 x WTX700

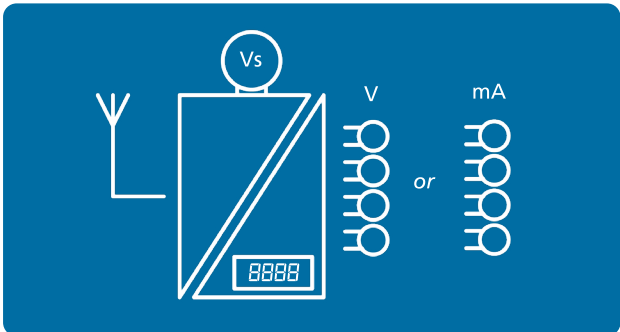
WRX  
900 / 22



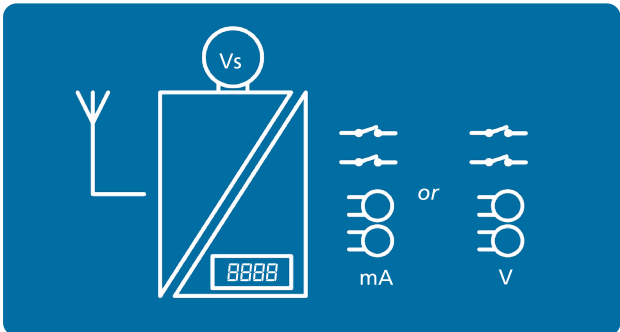
Wireless receiver for up to 16 x WTX700



Head mount in SCH4 or SCH11



DIN rail



DIN rail

## INPUT

### TYPE

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

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

## OUTPUT

### Communication

Measurement data on ISM band 868.4 MHz
N/A

## GENERAL

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

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

## APPROVALS

### EMC / UKCA

EN BS 61326

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

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

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

EN BS 61326

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

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

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

EN BS 61326

Field mounted indicators and switches - pressure

DM 650PM

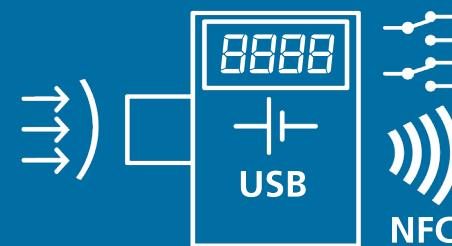
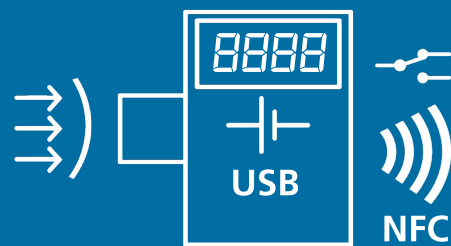


LCD battery-powered pressure and media temperature indicator with relay and datalogging.

DM 670PM



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



INPUT

Mechanical

- 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
- EMC / UKCA

Sensor / surface mount

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

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

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

- N/A
- EN BS 61326

Sensor / surface / panel mount

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

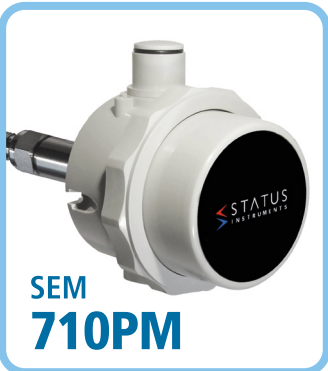
6-digit LCD 15.8 mm
Yes - 2 relays
USB / NFC
Yes
Yes - up to 3600 points
Yes, and relay option

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

- N/A
- EN BS 61326

# 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 pages 30 / 31).



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.

PRESSURE	Range options	Range from zero	Other ranges
	Type	Gauge	Absolute Sealed gauge
OUTPUT	2-wire (4 to 20) mA loop-powered	Yes x 2 (temp and pressure)	Yes x 2 (temp and pressure)
	Voltage output	N/A	N/A
	Datalogging	Yes	Yes
	Linearisation	Yes (pressure & process)	Yes (pressure & process)
GENERAL	Standard basic accuracy	See datasheet	See datasheet
	Operating temperature	(-20 to +70) °C	(-20 to +70) °C
	Process temperature	(-40 to +110) °C	(-40 to +110) °C
	Diaphragm material	316 stainless steel	316 stainless steel
	Material of body and process connection	316 stainless steel	316 stainless steel
	Standard seals	Viton	Viton
	Standard cable	N/A	N/A
	Configuration	PC via USB	PC via USB
	Display	N/A	6-digit LCD (7.9mm)
PROCESS CONNECTION	1/4" BSP	Yes	Yes
	1/4" NPT	adaptor	adaptor
	1/2" BSP	adaptor	adaptor
	1/2" BSP flush	adaptor	adaptor
	Other to order	Yes	Yes
	Open or closed ends	N/A	N/A
APPROVALS	ATEX	N/A	N/A
	UKEX	N/A	N/A
	IEC Ex	N/A	N/A
	EMC / UKCA	EN BS 61326	EN BS 61326



## 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 our SCH15 stainless steel enclosure, when extra strength and protection are needed.

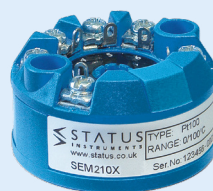


### SCH55

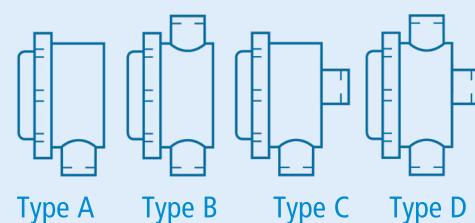
ATEX displays can be used with ATEX transmitters, within approved enclosures like our SCH55, to create cost-effective ATEX assemblies.

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 12 - 17.



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

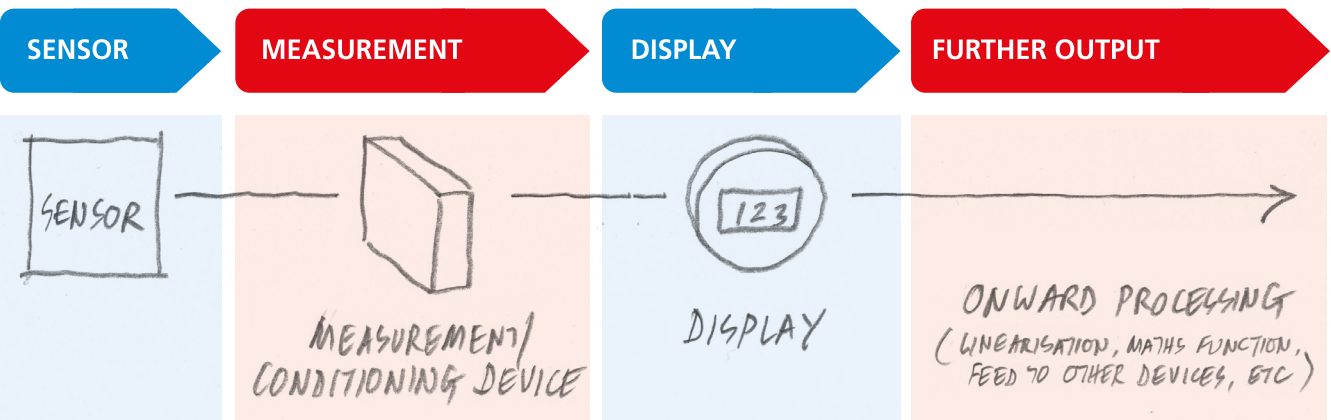
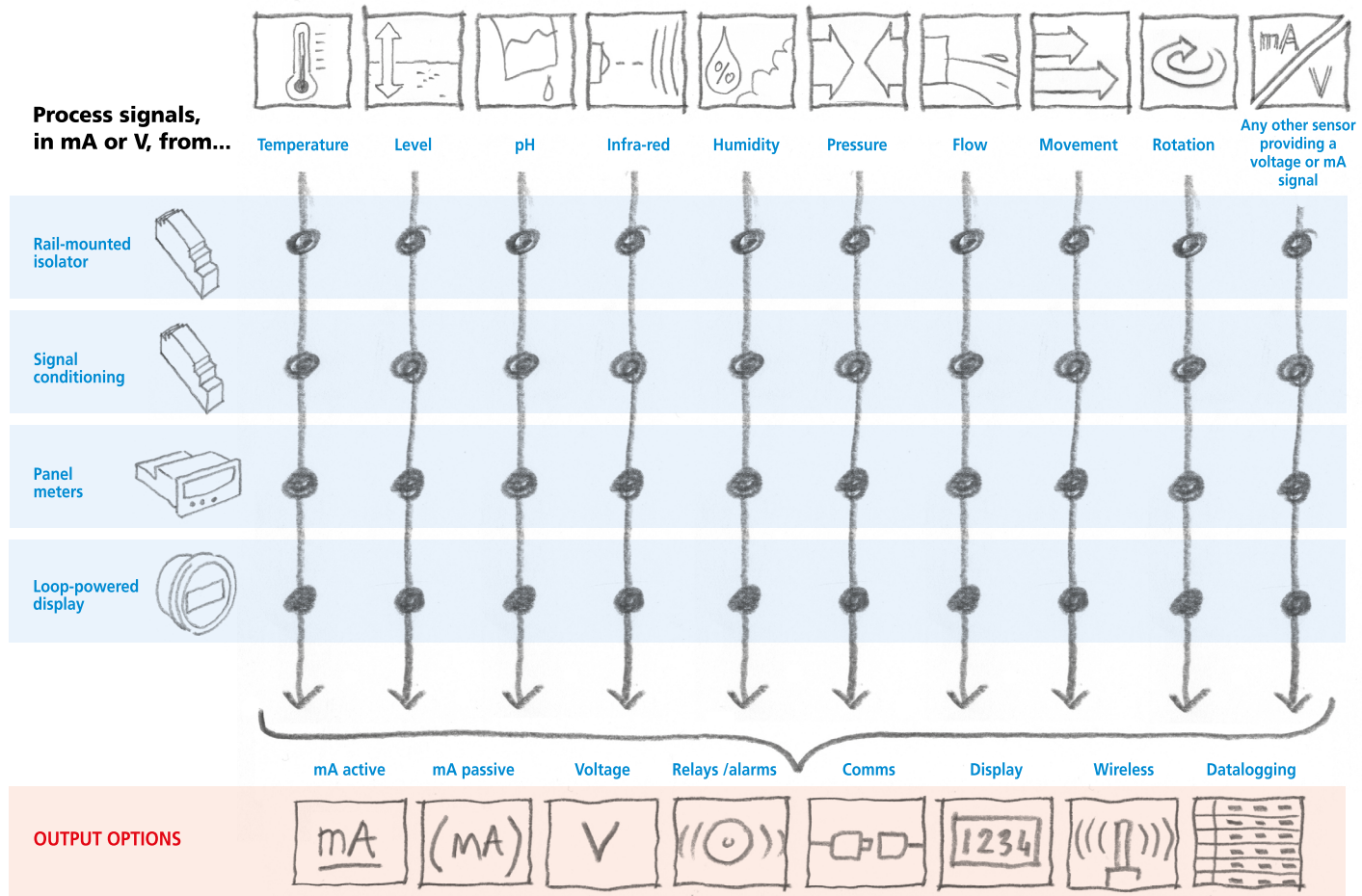
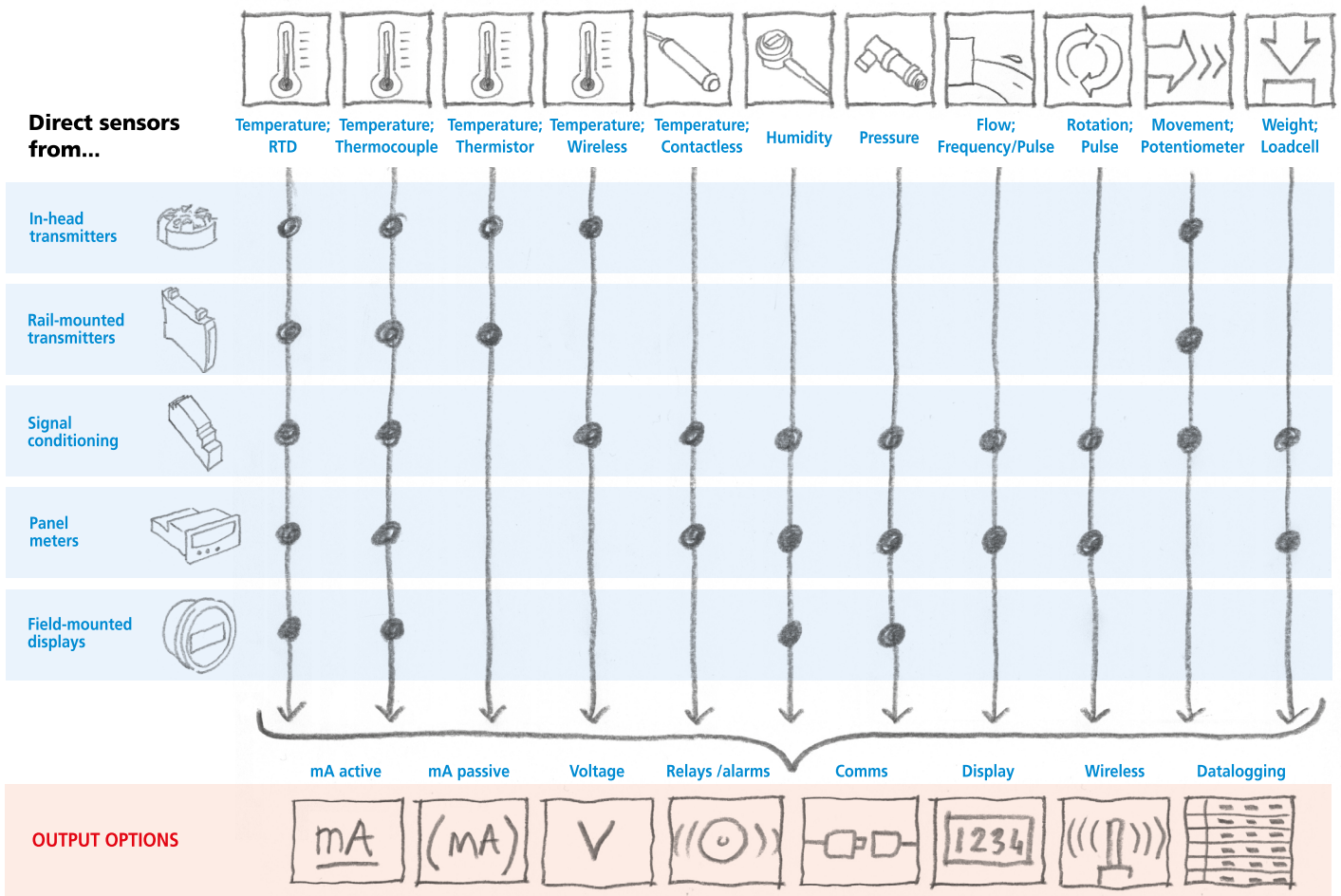
For every application, there is a Status product, and a practical solution.

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.

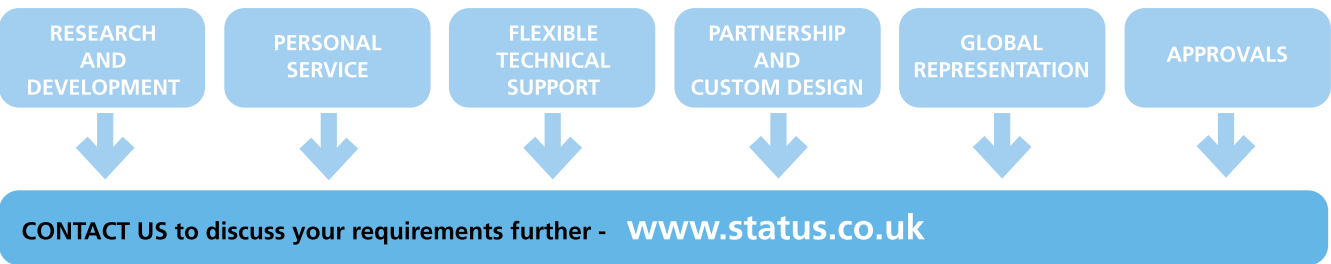
The basic principle is shown below, and opposite we show how Status can help you 'journey' from sensor output (or from any mA or V process signal) to arrive at the outcome you require.

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.





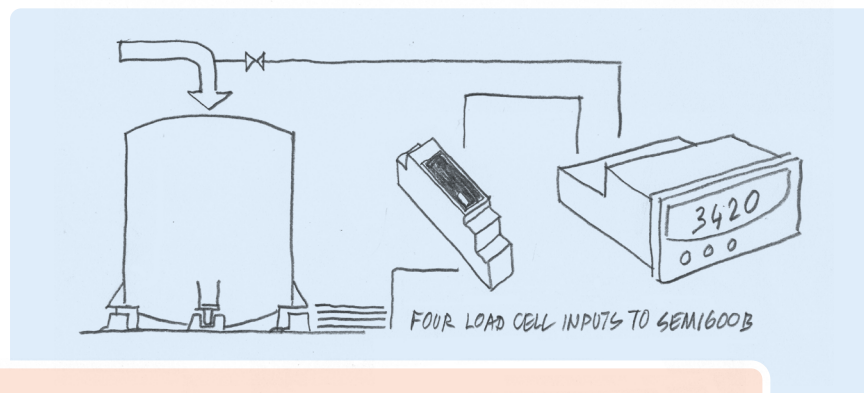
# The Application Guide



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.

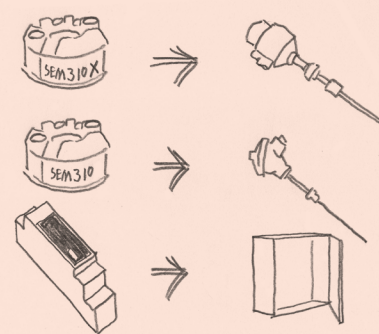
Visit our website to view our **Application Guide resources** - or call us, and we can discuss your requirements, and advise about a range of innovative solutions, that will deliver improved efficiency, real cost savings ... and total peace of mind.

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



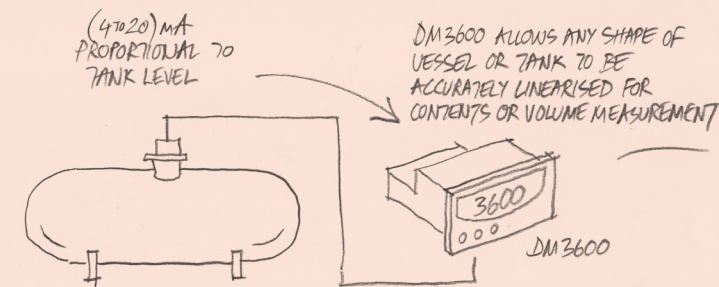
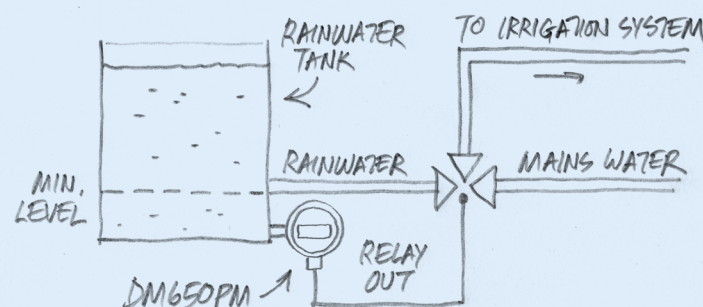
The weight of a tank mounted on 4 loadcells is measured by an SEM1600B, which takes their average output (equivalent to tank weight) and converts this into a voltage or (4 to 20) mA signal – in this example, for the DM3420 to measure as volume.

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

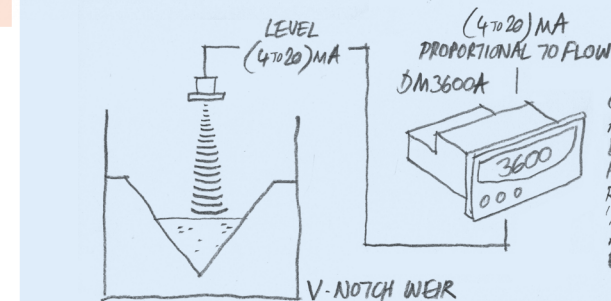


Our in-head transmitter range can accept RTD and thermocouple sensors as well as Ohmic, mV and potentiometer sensors. A sensor calibration function is provided to help minimise sensor error.

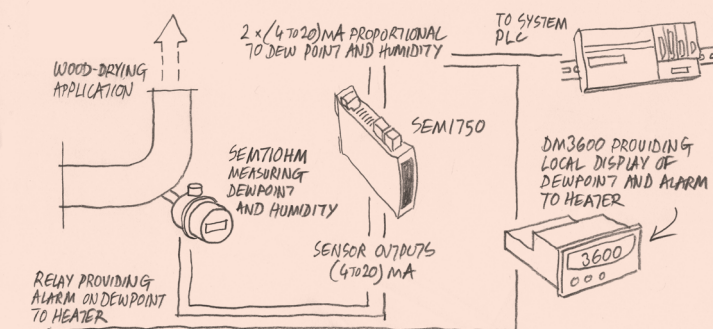
A DM650PM is measuring the water level in the tank via pressure. When the level is above the minimum then the rainwater is sent to the irrigation system.



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.

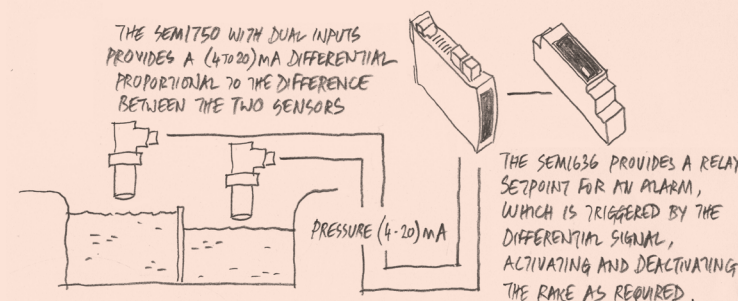
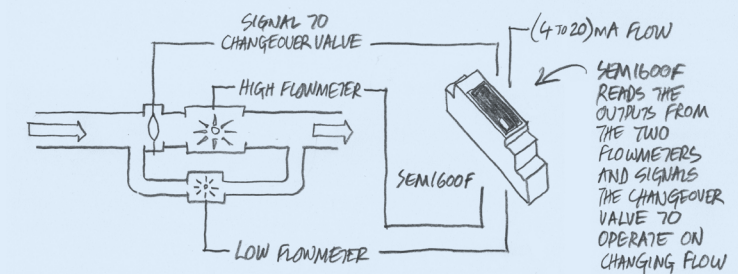


COMMON FLOW LAWS ARE STANDARD IN THE DM3600A. IT CAN BE PROGRAMMED SO A RELAY CLOSURE EVERY 'X' CUBIC METRES SENDS A SIGNAL FOR AN EXTERNAL TOTALISER.



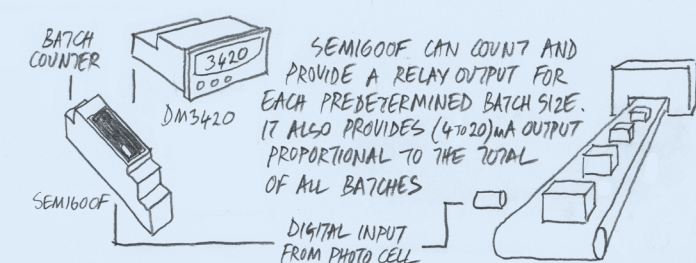
An SEM1750 powers the SEM710HM, and sends two loops to the panel meter and PLC for further control. The panel meter has its relay output programmed to alarm if the dewpoint reaches a critical level.

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
DM3430	High-voltage/current true RMS panel meter	
DM4000U	Panel meter	DM3600U
DM4000A	Panel meter	DM3600A
DM4000C	Panel meter	
DM440	Digital temperature indicator	DM650TM
DM4500	Panel meter series	
DM500	Loop-powered LCD indicator	DM700
DM540X	ATEX field-mounted display	DM640X
DM650VI	Voltage process indicator with relay	
DM660	Large Pt100 digital indicator	DM670TM
HTR200/1V	MA head-mounted RTD, potentiometer, resistance transmitter with voltage output	
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