STATUS INSTRUMENTS

PRODUCT GUIDE
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www.statinst.com

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Welcome
to the latest Status Instruments Product Guide

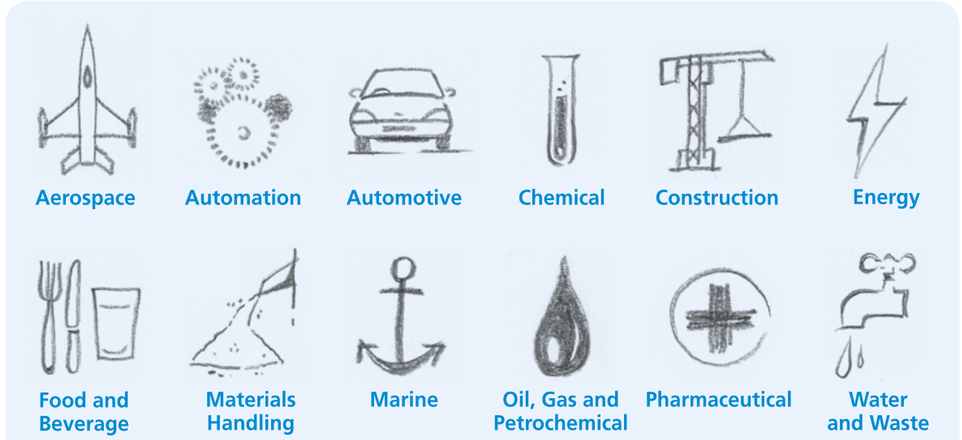
Here at Status we've been designing, manufacturing and supplying top-quality process instrumentation for over 35 years - and in that time, we have acquired a following of loyal customers, who return to us year after year, and have come to appreciate our ongoing promise - that what goes into our products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

Our products also comply with the following accreditations:

Where you'll find us working



Ordering

Please place your order directly with the distributor who sent you this Guide. If you acquired this Guide independently, please contact Status directly, and we will be able to help you.

Telephone	**(800) 700-3272**
Website	**www.statinst.com**
Sales and technical support	**sales@statinst.com**

Contents

How to use this Guide

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

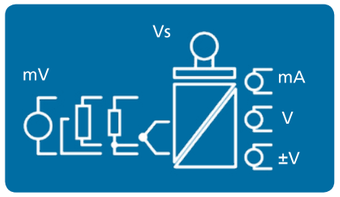
Each section shows what the range has to offer, and the products are then listed individually with their relevant specification details beneath.

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.

Signal conditioning

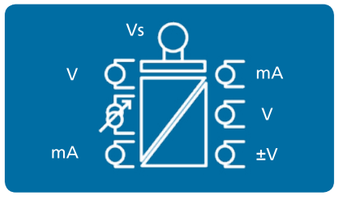
SEM 1600T

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



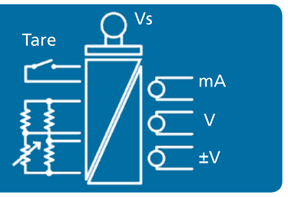
SEM 1600VI

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



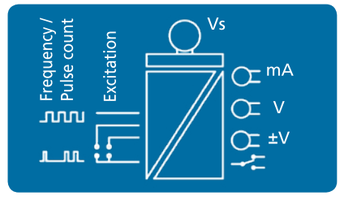
SEM 1600B

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.

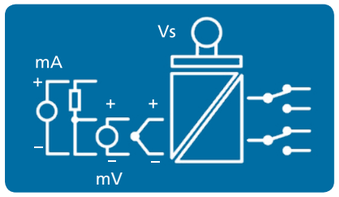


INPUT	**Pt100**	Yes	N/A	N/A	N/A
	RTD other types	Yes	N/A	N/A	N/A
	Resistance	(10 to 10,500) Ω	N/A	N/A	N/A
	Potentiometer	1 kΩ to 100 kΩ auto sense	N/A	N/A	N/A
	Thermocouple	K, J, N, E, T, R, S, L, U, B, C(W5), D(W3), G(W)	N/A	N/A	N/A
	Voltage	(-100 to +200) mV	(-50 to +50) VDC	N/A	N/A
	Current	N/A	(-50 to +50) mA (active / passive)	N/A	N/A
	Frequency	N/A	N/A	N/A	0.01 Hz to 65 kHz
	Pulse counter	N/A	N/A	N/A	Yes
	Load cell	N/A	N/A	Yes - 4-wire	N/A
OUTPUT	*See datasheet for full details and specific output combinations*	mA - active / passive Voltage Bi-polar voltage	mA - active / passive Voltage Bi-polar voltage	mA - active / passive Voltage Bi-polar voltage	mA - active / passive Voltage Bi-polar voltage Pulse (closed contact relay)
GENERAL	**Isolation**	Yes	Yes	Yes	Yes
	Output zero/span alignment to input	Yes	Yes	Yes - push-button	Yes
	User offset	Yes	N/A	Yes - tare	N/A
	User linearisation	Yes - resistance / potentiometer / mV	Yes	Yes	N/A
	Remote reset	N/A	N/A	Tare	Yes
	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC	Universal, (10 to 48) VDC and (10 to 32) VAC
	Loop power supply	Yes - output	Yes - input and output	Yes - output	Yes - output
	Sensor excitation	N/A	N/A	Yes	Yes
	Configuration	PC	PC	PC	PC
	Totalise	N/A	N/A	N/A	Yes
	Maths functions	N/A	Flow formulae	N/A	Yes
	Width	17.5 mm	17.5 mm	17.5 mm	17.5 mm

Signal conditioning

SEM 1620

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

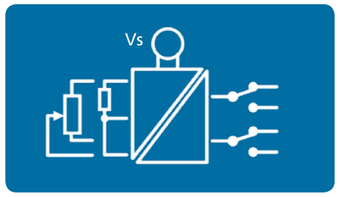


SEM 1630

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

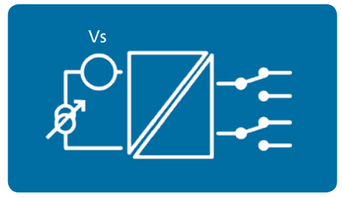
SEM 1633

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



SEM 1636

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



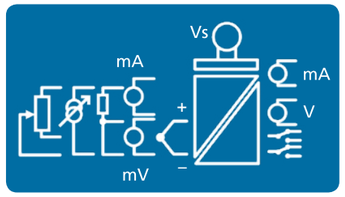
INPUT	**Pt100**	Yes	Yes	N/A
	RTD other types	N/A	N/A	Yes
	Resistance	N/A	N/A	(10 to 10,500) Ω
	Potentiometer	N/A	N/A	10 Ω to 100 kΩ auto sense
	Thermocouple	K, J, N, E, T, R, S	K, J, N, E, T, R, S	N/A
	Voltage	(-10 to +75) mV	(-10 to +75) mV	N/A
	Current	(-10 to +25) mA Passive	(-10 to +25) mA Passive	N/A
	Frequency	N/A	N/A	N/A
	Pulse counter	N/A	N/A	N/A
	Load cell	N/A	N/A	N/A
OUTPUT	*See datasheet for full details and specific output combinations*	Voltage - 3 wire	2 x (250 VAC @ 1A) C/O relay	2 x (250 VAC @ 1A) C/O relay
GENERAL	**Isolation**	Yes	Yes	Yes - relays
	Output zero/span alignment to input	Yes	N/A	N/A
	User offset	N/A	N/A	N/A
	User linearisation	N/A	N/A	Yes - resistance / potentiometer
	Remote reset	N/A	N/A	N/A
	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	(15 to 28) VDC	24 VDC	Universal, (10 to 48) VDC and (10 to 32) VAC
	Loop power supply	N/A	N/A	N/A
	Sensor excitation	N/A	N/A	N/A
	Configuration	PC	PC	PC
	Totalise	N/A	N/A	N/A
	Maths functions	N/A	N/A	N/A
	Width	17.5 mm	17.5 mm	17.5 mm

INPUT	**Pt100**	N/A
	RTD other types	N/A
	Resistance	N/A
	Potentiometer	N/A
	Thermocouple	N/A
	Voltage	N/A
	Current	(4 to 20) mA Passive
	Frequency	N/A
	Pulse counter	N/A
	Load cell	N/A
OUTPUT	*See datasheet for full details and specific output combinations*	2 x (250 VAC @ 1A) C/O relay
GENERAL	**Isolation**	Yes - relays
	Output zero/span alignment to input	N/A
	User offset	N/A
	User linearisation	Yes
	Remote reset	N/A
	Ambient operating	(-30 to +70) °C
	Power supply	(4 to 20) mA loop
	Loop power supply	N/A
	Sensor excitation	N/A
	Configuration	PC
	Totalise	N/A
	Maths functions	Yes - flow formula
	Width	17.5 mm

Signal conditioning

SEM 1700

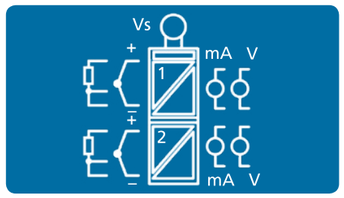
Universal signal conditioner with current or voltage, and 2 change-over relay outputs.



Single channel

SEM 1720

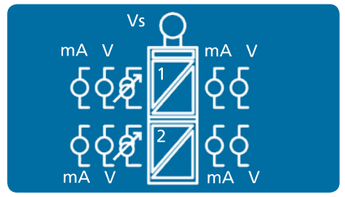
Dual-channel RTD, thermocouple, potentiometer, mV input with active / passive mA or voltage outputs.



Dual channel

SEM 1750

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



Dual channel

	TYPE	Single channel	Dual channel	Dual channel
INPUT	Pt100	Yes	Yes	N/A
	RTD other types	N/A	Yes	N/A
	Resistance	(20 to 400) Ω	N/A	N/A
	Potentiometer	> 1 kΩ	1 kΩ to 100 kΩ auto sense	N/A
	Thermocouple	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	N/A
	Voltage	±50 mV, ±200 mV, ±1 V, ±10 V	N/A	±50 VDC
	Current	±30 mA (active or passive)	N/A	±50 mA (active / passive)
	Frequency	N/A	N/A	N/A
	Pulse Counter	N/A	N/A	N/A
	Load Cell	N/A	N/A	N/A
OUTPUT	*See datasheet for full details and specific output combinations*	mA - active / passive Voltage 2 x (250 VAC @ 1A) C/O Relay	mA - active / passive Voltage Optional programmable maths outputs to include average, sum and splitter functions	mA - active / passive Voltage Optional programmable maths outputs to include average, sum and splitter functions
GENERAL	Isolation	Yes	Yes	Yes
	Output zero/span alignment to input	Yes - push-button	N/A	N/A
	User offset	N/A	Yes	N/A
	User linearisation	N/A	Yes	Yes
	Remote reset	N/A	N/A	N/A
	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	Universal, (22 to 300) VDC and (24 to 250) VAC	Universal, (22 to 300) VDC and (24 to 250) VAC	Universal, (22 to 300) VDC and (24 to 250) VAC
	Loop power supply	Input and output	Output, both channels	Input and output, both channels
	Sensor excitation	Yes - mA loop	Yes - both channels	Yes - both channels
	Configuration	PC - push-button	PC / DIP switch - pre-set ranges	PC
	Totalise	N/A	N/A	N/A
	Maths functions	N/A	Yes	Yes
	Width	22 mm	22 mm	22 mm

Signal conditioning

SEM 1000

(4 to 20) mA current loop isolator.

SEM 1010

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

SEM 1015

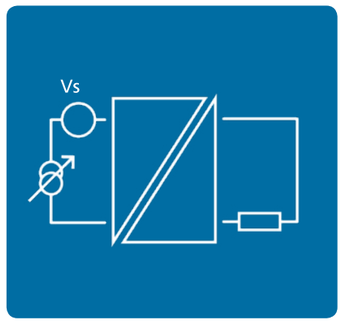
Converts DC voltage to an isolated (4 to 20) mA signal.

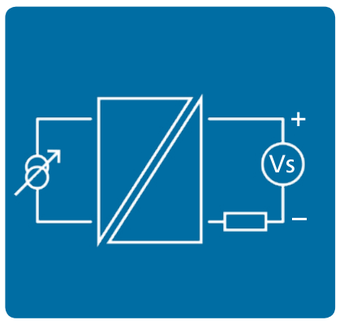
SEM 1020

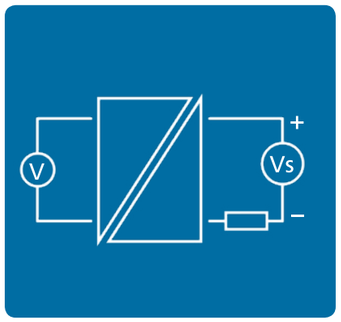
Isolating current loop booster.

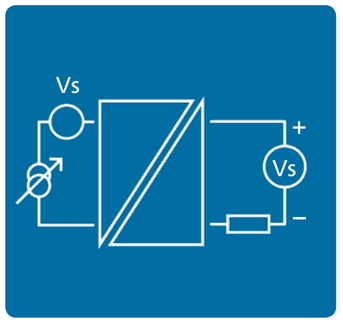
SEM 1200

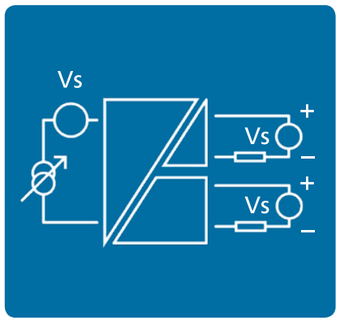
Isolating current loop splitter.











INPUT	**Type**	(4 to 20) mA passive	2-wire (4 to 20) mA transmitter	DC voltage	(4 to 20) mA passive	(4 to 20) mA passive
	Range	(4 to 20) mA	(4 to 20) mA	Any between (-10 to 100) VDC	(4 to 20) mA	(4 to 20) mA
OUTPUT		(4 to 20) mA active	(4 to 20) mA passive	(4 to 20) mA passive	(4 to 20) mA passive	2 x 2-wire (4 to 20) mA passive
GENERAL	**Volt drop**	Input 5.0 VDC typical	Output 5.0 VDC typical	N/A	Input and output 2.7 VDC	Input and outputs 5.0 VDC
	Maximum loop supply	Input 35 VDC	Output 35 VDC	Output 30 VDC	Input and output 35 VDC	Input and output 32 VDC
	Isolation	500 VDC	500 VDC	500 VDC	500 VDC	500 VDC
	Maximum load	Output 500 Ω	N/A	N/A	Output 1200 Ω	Outputs 1200 Ω
	Power supply	Input loop	Output loop	Output loop	Both loops	All loops
	Ambient operating temperature	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C	(0 to +70) °C
	Width	12.5 mm	21 mm	12.5 mm	12.5 mm	12.5 mm

Rail-mounted transmitters

SEM 1605P

Pt100 transmitter; PC configuration.

SEM 1605TC

Thermocouple transmitter; PC configuration.

SEM 1615

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

SEM 315 MKII

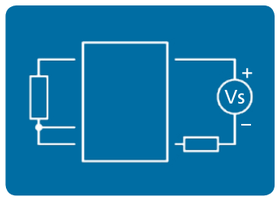
HART 5,6,7 compatible RTD, thermocouple, potentiometer, resistance, mV transmitter; PC configuration.

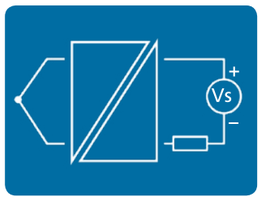
SEM 1801/2RX

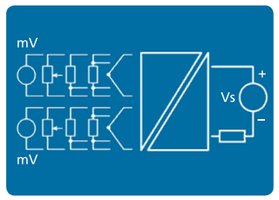
RTD, potentiometer, resistance transmitter; PC configuration. IS-approved.

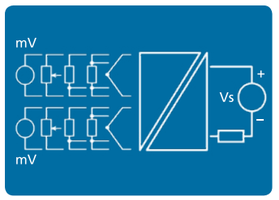
SEM 1801/2TCX

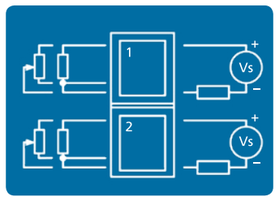
Thermcocouple transmitter; PC configuration. IS-approved.

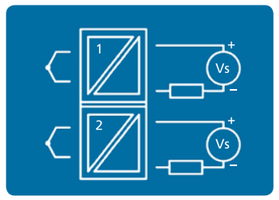










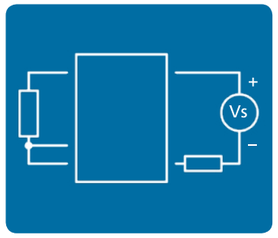


	TYPE	Single channel	Single channel	Dual input	Dual input	Single or dual channel	Single or dual channel
INPUT	Pt100	Yes - 2, 3 wire	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Other RTD sensors	Yes	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire	Yes - 2, 3 wire	N/A
	Resistance	N/A	N/A	(10 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	N/A
	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
GENERAL	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
	Width	17.5 mm	17.5 mm	17.5 mm	17.5 mm	22 mm	22 mm
APPROVALS	ATEX	N/A	N/A	N/A	N/A	Yes	Yes
	IEC Ex	N/A	N/A	N/A	N/A	Yes	Yes
	EMC	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

In-head transmitters

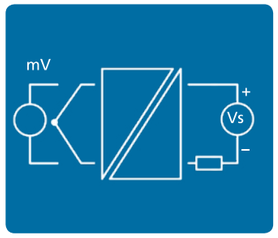
SEM 203P

Pt100 transmitter; push-button configuration.



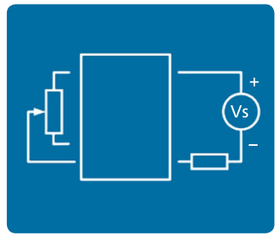
SEM 203TC

Thermocouple transmitter; push-button configuration.



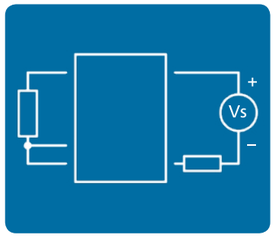
SEM 203W

Potentiometer transmitter; push-button configuration.



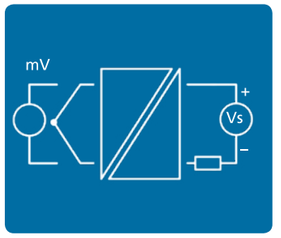
SEM 206P

Pt100 transmitter; PC configuration.



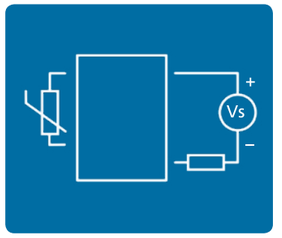
SEM 206TC

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 kΩ to 100 kΩ	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) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °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	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.
APPROVALS	ATEX	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
	Marine DNV standard	Yes	Yes	N/A	Yes	Yes	N/A
	EMC	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.

TTC 200

TTC 200X

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

SEM 210 MKII

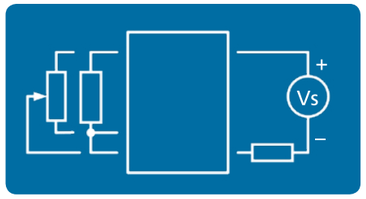
SEM 210X MKII

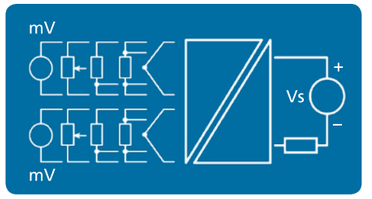
RTD, thermocouple, potentiometer, resistance, mV transmitter; PC configuration.
IS-approved version: SEM210X.

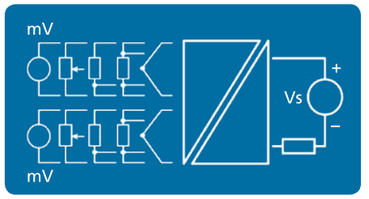
SEM 310 MKII

SEM 310X MKII

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







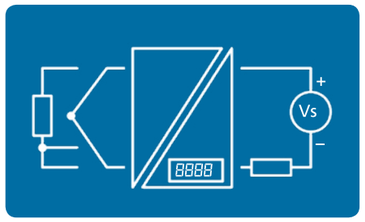
	TYPE	In-head	In-head	In-head, dual input	In-head, dual input
INPUT	Pt100	Yes - 2, 3 wire	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire
	Other RTD sensors	Yes - 2, 3 wire	N/A	Yes - 2, 3, 4 wire	Yes - 2, 3, 4 wire
	Resistance	(10 to 10,500) Ω	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω
	Potentiometer	1 kΩ to 100 kΩ auto sense	N/A	1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ auto sense
	Thermocouple type	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	K, J, N, E, T, R, S, L, U, B, C, D, G custom
	Voltage	N/A	(-100 to +200) mV	(-1000 to +1000) mV	(-1000 to +1000) mV
	Current	N/A	N/A	N/A	N/A
	Thermistor	Yes	N/A	N/A	N/A
OUTPUT		(4 to 20) mA	(4 to 20) mA	(4 to 20) mA	(4 to 20) mA HART
GENERAL	Isolation	No	Yes	Yes	Yes
	Custom linearisation	Resistance / potentiometer	Yes - mV	Yes	Yes
	Output zero/span alignment to input	Yes	Yes	Yes	Yes
	User offset	Yes	Yes	Yes	Yes
	Display	N/A	N/A	N/A	N/A
	Ambient operating	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C	(-40 to +85) °C
	Power supply	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
	Configuration	PC	PC	PC	PC and HART configurator
	Width / diameter	43 mm dia.	43 mm dia.	44 mm dia.	44 mm dia.
APPROVALS	ATEX	Yes	Yes	Yes	Yes
	IEC Ex	Yes	Yes	Yes	Yes
	Marine DNV standard	Yes	Yes	Yes	Yes
	EMC	EN BS 61326	EN BS 61326	EN BS 61326	EN BS 61326

Temperature transmitters

Other packages

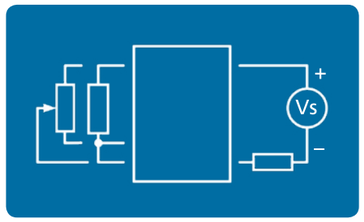
SEM 710

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



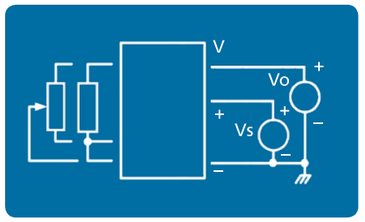
HTR 200/1

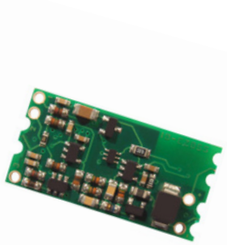
MA head-mounted RTD, potentiometer, resistance transmitter.



HTR 200/1V

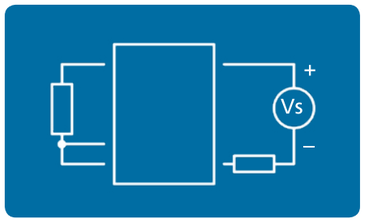
MA head-mounted RTD, potentiometer, resistance transmitter with voltage output.





SEM 106P

OEM transmitter - build into your own device.



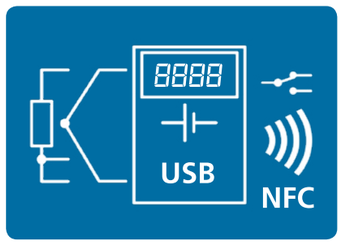
	TYPE	In-head (SCH4 or SCH15)	In-head	In-head	In-head
INPUT	Pt100	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3 wire	Yes - 2, 3 wire
	Other RTD sensors	N/A	Yes - 2, 3 wire	Yes - 2, 3 wire	N/A
	Resistance	N/A	(10 to 10,500) Ω	(10 to 10,500) Ω	N/A
	Potentiometer	N/A	1 kΩ to 100 kΩ auto sense	1 kΩ to 100 kΩ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

Field mounted displays

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

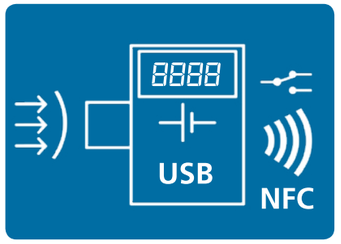
DM 650TM

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



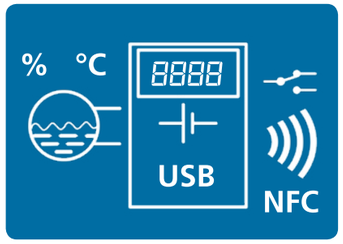
DM 650PM

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



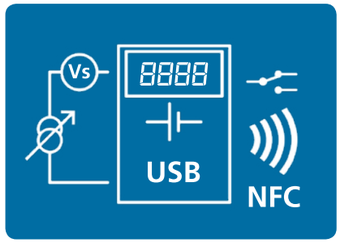
DM 650HM

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



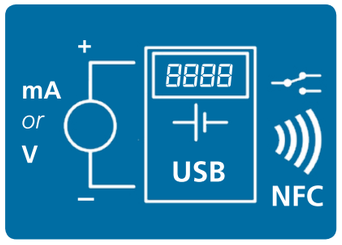
DM 650LP

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



DM 650VI

±50 mA or ±50 V, battery-powered LCD process indicator.



	Mechanical	Sensor / surface mount	Sensor / surface mount	Sensor / surface mount	Sensor / surface mount	Sensor / surface mount
INPUT	Pt100	Yes	N/A	N/A	N/A	N/A
	Thermocouple	K, J, T, R, S, E, L, N, U, B, C, D, G	N/A	N/A	N/A	N/A
	Pressure and media temperature	N/A	Yes - sensor included, ¼" BSP thread (adaptors available)	N/A	N/A	N/A
	Humidity and media temperature	N/A	N/A	Yes - sensor included	N/A	N/A
	Current	N/A	N/A	N/A	(4 to 20) mA loop (passive)	±50 mA
	Voltage	N/A	N/A	N/A	N/A	±50 V
	Linearisation / offset	Offset	Both	N/A	Both	Both
OUTPUT	Display	6-digit LCD 7.9 mm	6-digit LCD 7.9 mm	6-digit LCD 7.9 mm	6-digit LCD 7.9 mm	6-digit LCD 7.9 mm
	Relay	Yes - 1 relay	Yes - 1 relay	Yes - 1 relay	Yes - 1 relay	Yes - 1 relay
	Contactless	NFC system	NFC system	NFC system	NFC system	NFC system
	Custom messaging	Yes	Yes	N/A	Yes	Yes
	Datalogging	Yes - 5000 points	Yes - 3600 points	Yes - 5000 points	Yes - 5000 points	Yes - 5000 points
	Max / min	Yes - via datalogging	Yes - via datalogging	Yes - via datalogging	Yes - via datalogging	Yes - via datalogging
GENERAL	Ambient operating	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	Battery 3.6 V lithium	Battery 3.6 V lithium	Battery 3.6 V lithium	(4 to 20) mA loop	Battery 3.6 V lithium
	Battery life	2 years typical	2 years typical	2 years typical	2 years typical	2 years typical
	Enclosure	SCH4	SCH4	SCH4	SCH4	SCH4
	Environmental rating	IP67	IP67	IP67	IP67	IP67
	Configuration	USB and NFC (some functions)	USB and NFC (some functions)	USB and NFC (some functions)	USB and NFC (some functions)	USB and NFC (some functions)
APPROVALS	ATEX	No - see DM640X series, page 24	No	No	No - see DM700X series, page 24	No

Field mounted displays

ATEX versions and large displays have either the sensor included, or supplied separately.

DM 640XP and 640XTC

ATEX-approved LCD battery-powered Pt100 or thermocouple thermometer.

DM 700X

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

DM 660

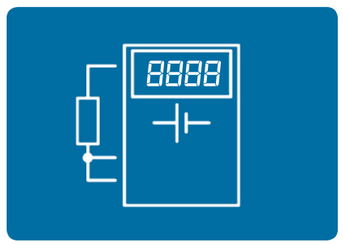
Large-digit LCD battery-powered Pt100 thermometer.

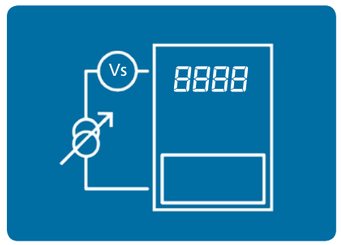
DM 670TM

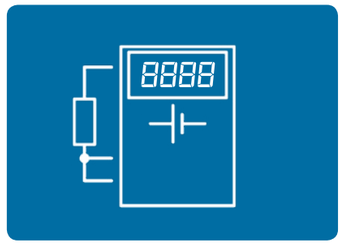
Large-digit LCD battery-powered Pt100 and thermocouple thermometer, with two relays and datalogging.

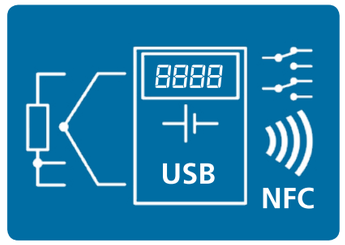
DM 670PM

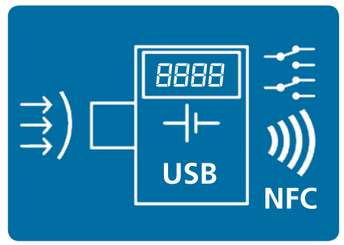
Large-digit LCD battery-powered pressure and media temperature indicator, with two relays and datalogging.











	Mechanical	Sensor / surface mount	Sensor / surface mount	Sensor / surface / panel mount	Sensor / surface / panel mount	Sensor / surface / panel mount
INPUT	Pt100	Yes	N/A	Yes	Yes	N/A
	Thermocouple	K, J, T, R, S, E, L, N	N/A	N/A	K, J, T, R, S, E, L, N, U, B, C, D, G	N/A
	Pressure and media temperature	N/A	N/A	N/A	N/A	Yes - sensor included, ¼" BSP thread (adaptors available)
	Humidity and media temperature	N/A	N/A	N/A	N/A	N/A
	Current	N/A	(4 to 20) mA loop (passive)	N/A	N/A	N/A
	Voltage	N/A	N/A	N/A	N/A	N/A
	Linearisation / offset	Offset	N/A	N/A	Both	Both
OUTPUT	Display	4-digit LCD 8.5 mm	4-digit LED 7 mm	4-digit LCD 20 mm	6-digit LCD 15.8 mm	6-digit LCD 15.8 mm
	Relay	N/A	N/A	N/A	Yes - 2 relays	Yes - 2 relays
	Contactless	N/A	N/A	N/A	NFC system	NFC system
	Custom messaging	N/A	N/A	N/A	Yes	Yes
	Datalogging	N/A	N/A	N/A	Yes - 5000 points	Yes - 3600 points
	Max / min	N/A	N/A	Yes	Yes, and relay condition	Yes, and relay option
GENERAL	Ambient operating	(-10 to +50) °C	(-10 to +70) °C	(-10 to +50) °C	(-30 to +70) °C	(-30 to +70) °C
	Power supply	Battery 3.6 V lithium	(4 to 20) mA loop	Battery 3.6 V lithium	Battery 3.6 V lithium	Battery 3.6 V lithium
	Battery life	2 years typical	N/A	2 years typical	2 years typical	2 years typical
	Enclosure	SCH4	SCH4	Stainless steel 100mm diameter	Stainless steel 100mm diameter	Stainless steel 100mm diameter
	Environmental rating	IP67	IP67	IP65	IP65	IP65
	Configuration	Push-button	Push-button	N/A	USB	USB
APPROVALS	ATEX	Yes	Yes	N/A	N/A	N/A

Probe assemblies

(typical examples)

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

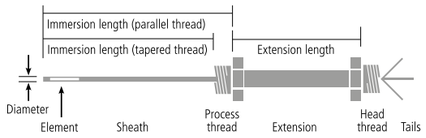
To that end, we have shown here our range of probe styles, in combination with some of our compatible transmitters, heads and thermowells, and other accessories.

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

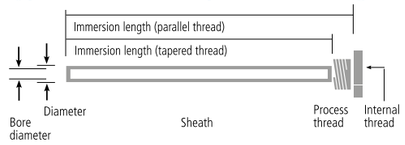
The typical diagrams below show what factors can be specified when ordering probes and thermowells - which include temperature range and immersion depth, but can also accommodate special threads, diameters and other details if required.

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 14

DM
650TM

Battery-powered range - see page 20

DM
670TM

Battery-powered range - see page 22

DM
700X

Loop-powered range - see page 22

DM
710

Loop-powered transmitter with display - see page 18

Connection blocks

Heads

SCH4

ABS plastic

SCH11

Aluminium

SCH15

Stainless steel

SCH50

Stainless steel / Aluminium EXD and Exia

We are certified to supply Exia and EXD probe assemblies

Compression glands

Thermowells

STW
Style 1

STW
Style 2

STW
Style 3

STW
Style 4

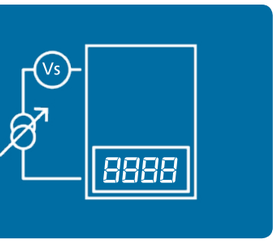
STW
Style 5

STW
Style 6

Panel meters

DM 720

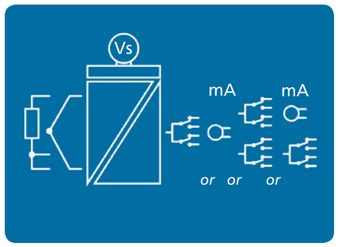
Loop-powered panel meter.



(48 x 24) mm panel mount

DM 3410

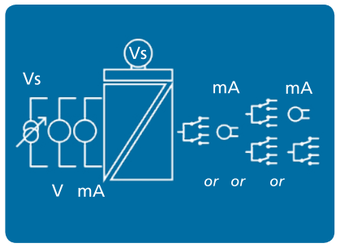
Pt100 / Thermocouple 4-digit panel meter with output options.



(96 x 48) mm panel mount

DM 3420

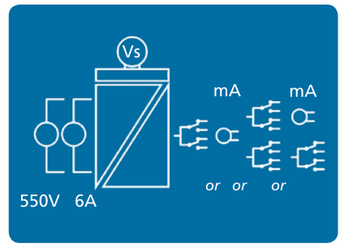
Current / voltage 4-digit panel meter with output options.



(96 x 48) mm panel mount

DM 3430

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



(96 x 48) mm panel mount

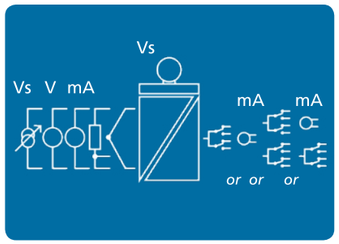
Mechanical

INPUT	**Pt100**	N/A	Yes	N/A	N/A
	Thermocouple	N/A	K, J, T, R, S, E, L, N. B	N/A	N/A
	Current	Yes (passive)	N/A	Yes (active or passive)	±6A AC / DC
	Voltage	N/A	N/A	(0 to 1) (1 to 5) (0 to 10) VDC	±550 V AC / DC
	Frequency / pulse	N/A	N/A	N/A	N/A
	Remote digital inputs	N/A	N/A	N/A	N/A
	User linearisation	N/A	N/A	Yes	N/A
OUTPUT	*See datasheet for full details and specific output combinations*	4-digit LED process display	2 x relay (250 VAC @ 5 A) POD Current (active or passive) POD 4-digit LED process display	2 x relay (250 VAC @ 5 A) POD Current (active or passive) POD 4-digit LED process display	2 x relay (250 VAC @ 5 A) POD Current (active or passive) POD 4-digit LED process display
GENERAL	**Isolation**	N/A	Yes	Yes	Yes
	Display	4-digit LED 10 mm	4-digit LED 14.2 mm	4-digit LED 14.2 mm	4-digit LED 14.2 mm
	Ambient operating	(-10 to +60) °C	(-30 to +60) °C	(-30 to +60) °C	(-30 to +60) °C
	Power supply	(4 to 20) mA loop	(20 to 35) VDC **or** (90 to 253) VAC	(20 to 35) VDC **or** (90 to 253) VAC	(20 to 35) VDC **or** (90 to 253) VAC
	Loop power supply	N/A	Output (option)	Input, output (option)	Output (option)
	Sensor excitation	N/A	N/A	N/A	N/A
	Configuration	Push-button	Push-button	Push-button	Push-button
	Max / min display	N/A	N/A	Yes	Yes
	Comms	N/A	N/A	N/A	N/A
	TFML maths functions	N/A	N/A	N/A	N/A

Panel meters

DM 3600U

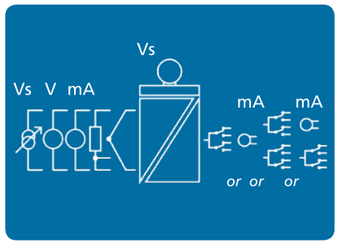
6-digit universal panel meter.



(96 x 48) mm panel mount

DM 3600A

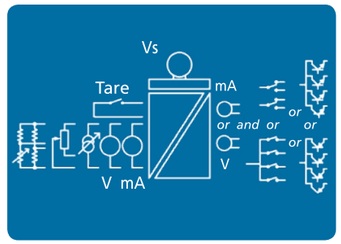
6-digit universal panel meter with rate /totaliser.



(96 x 48) mm panel mount

DM 4500U

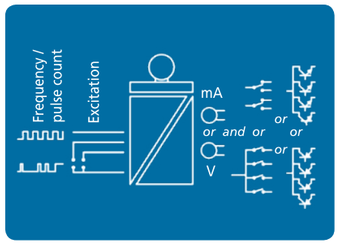
Multi-colour 5-digit universal panel meter with load cell input.



(96 x 48) mm panel mount

DM 4500F

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



(96 x 48) mm panel mount

Mechanical

INPUT	**Pt100**	Yes	Yes	Yes	N/A
	Thermocouple	K, J, T, R, S, E, L, N. B	K, J, T, R, S, E, L, N. B	K, J, T	N/A
	Current	Yes (active or passive)	Yes (active or passive)	Yes (active or passive)	N/A
	Voltage	±100 mV, ±1 VDC, ±10 VDC	±100 mV, ±1 VDC, ±10 VDC	±10 VDC	N/A
	Frequency / pulse	N/A	N/A	N/A	Yes - see data sheet
	Remote digital inputs	Yes - with comms	Yes - with comms	Yes	Yes
	User linearisation	Yes	Yes	Yes	Scaling
OUTPUT	*See datasheet for full details and specific output combinations*	2 x relay (250 VAC @ 5 A) POD Current (active or passive) POD RS485 Modbus (RJ45) 6-digit LED process display	2 x relay (250 VAC @ 5 A) POD Current (active or passive) POD RS485 Modbus (RJ45) 6-digit LED process display	2 x relay (250 VAC @ 8 A) option 4 x relay (250 VAC @ 5 A) option Current (active or passive) RS485 Modbus option NPN / PNP logic option 5-digit LED process display	2 x relay (250 VAC @ 8 A) option 4 x relay (250 VAC @ 5 A) option Current (active or passive) RS485 Modbus option NPN / PNP logic option 5-digit LED process display
GENERAL	**Isolation**	Yes	Yes	Yes	Yes
	Display	6-digit LED 14.2 mm	6-digit LED 14.2 mm	5-digit LED 14.2 mm multi-colour	5-digit LED 14.2 mm multi-colour
	Ambient operating	(-30 to +60) °C	(-30 to +60) °C	(-10 to +60) °C	(-10 to +60) °C
	Power supply	(20 to 35) VDC **or** (90 to 253) VAC	(20 to 35) VDC **or** (90 to 253) VAC	(10.5 to 70) VDC and (22 to 53) VAC **or** (85 to 265) VAC and (100 to 300) VDC	(10.5 to 70) VDC and (22 to 53) VAC **or** (85 to 265) VAC and (100 to 300) VDC
	Loop power supply	Input, output (option)	Input, output (option)	Input, output (option)	Output (option)
	Sensor excitation	N/A	N/A	Yes, plus load cell	Yes
	Configuration	Push-button / comms option	Push-button / comms option	Push-button / comms option	Push-button / comms option
	Max / min display	Yes	Rate / total	Yes, and tare	Total / counter
	Comms	Option	Option	Option	Option
	TFML maths functions	Yes - with comms	Yes - with comms	N/A	N/A

Humidity and temperature transmitters

SEM 160 ID/H

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

SEM 160 ID/HP

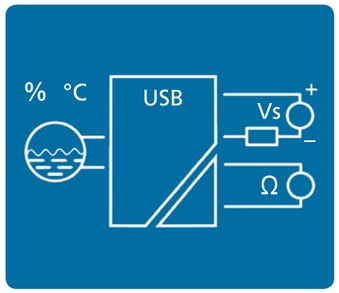
Cost-effective dual-channel duct-mounted humidity / temperature transmitter.

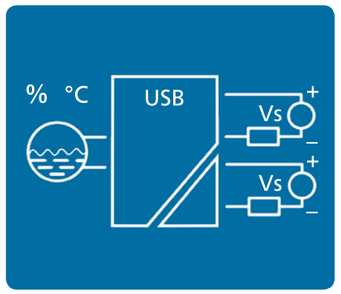
SEM 160 IW/H

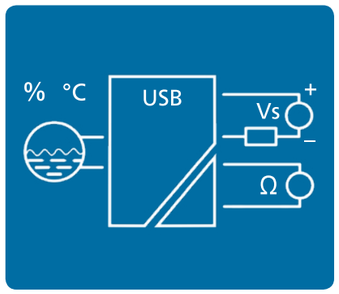
Cost-effective single-channel wall-mounted humidity transmitter.

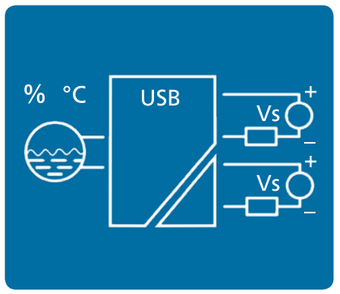
SEM 160 IW/HP

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









INPUT	**Temperature range**	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C
	Humidity (RH)	(10 to 90) %	(10 to 90) %	(10 to 90) %	(10 to 90) %
BASE ACCURACY	**Temperature**	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C
	Humidity (RH)	±3% RH	±3% RH	±3% RH	±3% RH
OUTPUT	**Output channels**	1 x (4 to 20) mA	2 x (4 to 20) mA	1 x (4 to 20) mA	2 x (4 to 20) mA
	Output choices: Temperature	Programmable	Default	Programmable	Default
	Humidity	Default	Default	Default	Default
	Dewpoint	Programmable	Programmable	Programmable	Programmable
	ΔTd - difference between dewpoint temperature and temperature	Programmable	Programmable	Programmable	Programmable
	Direct thermistor option	Yes	No	Yes	No
GENERAL	**Sensor length**	120, 250 mm	120, 250 mm	120 mm	120 mm
	Configuration	PC	PC	PC	PC
	Power supply	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC	(10 to 30) VDC
	Ambient operating (electronics, not sensor)	(-20 to +70) °C	(-20 to +70) °C	(-20 to +70) °C	(-20 to +70) °C
	Encapsulated electronics	No	No	No	No

Humidity and temperature transmitters

SEM 161 W/H

Single-channel wall-mounted humidity transmitter.

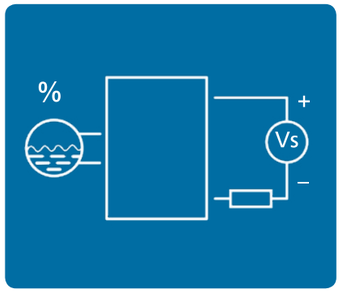
SEM 161 D/H

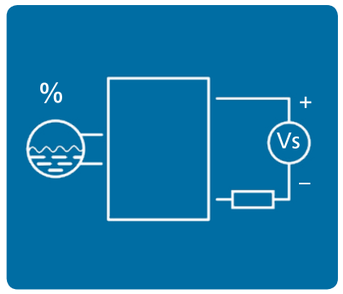
Single-channel duct-mounted humidity transmitter.

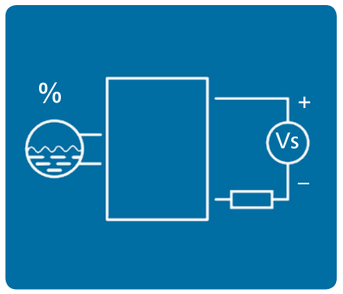
SEM 161 R/H

Single-channel remote mount humidity transmitter.

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







		SEM 161 W/H	SEM 161 D/H	SEM 161 R/H
INPUT	Temperature range	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C
	Humidity (RH)	(10 to 90) %	(10 to 90) %	(10 to 90) %
BASE ACCURACY	Temperature	±0.5 °C	±0.5 °C	±0.5 °C
	Humidity (RH)	±2% RH	±2% RH	±2% RH
OUTPUT	Output channels	1 x (4 to 20) mA	1 x (4 to 20) mA	1 x (4 to 20) mA
	Output choices: Temperature	Programmable	Default	Programmable
	Humidity	Default	Default	Default
	Dewpoint	Programmable	Programmable	Programmable
	ΔTd - difference between dewpoint temperature and temperature	Programmable	Programmable	Programmable
	Direct thermistor option	N/A	N/A	Yes
GENERAL	Plug-in sensor	Yes	N/A	N/A
	Cable / sensor length	120 mm	120, 250, 500 mm	2m or 5m
	Display option	Yes	Yes	Yes
	Configuration	PC	PC	PC
	Power supply	(10 to 30) VDC *	(10 to 30) VDC *	(10 to 30) VDC *
	Ambient operating (electronics, not sensor)	(-30 to +85) °C	(-30 to +85) °C	(-30 to +85) °C
	Encapsulated electronics	Yes	Yes	Yes

Humidity and temperature transmitters

SEM 162 W/HP

Dual-channel wall-mounted temperature / humidity transmitter.

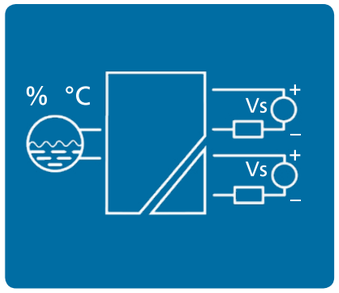
SEM 162 D/HP

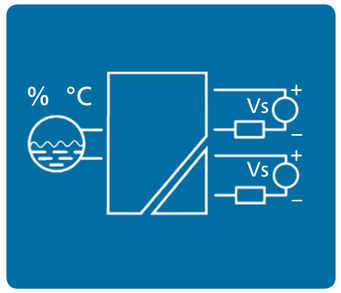
Dual-channel duct-mounted temperature / humidity transmitter.

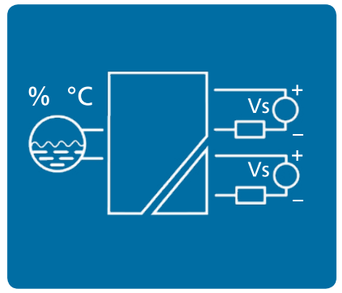
SEM 162 R/HP

Dual-channel remote mount temperature / humidity transmitter.

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







INPUT	Temperature range	(-30 to +100) °C	(-30 to +100) °C	(-30 to +100) °C
	Humidity (RH)	(10 to 90) %	(10 to 90) %	(10 to 90) %
BASE ACCURACY	Temperature	±0.5 °C	±0.5 °C	±0.5 °C
	Humidity (RH)	±2% RH	±2% RH	±2% RH
OUTPUT	Output channels	2 x (4 to 20) mA	2 x (4 to 20) mA	2 x (4 to 20) mA
	Output choices: Temperature	Default	Default	Default
	Humidity	Default	Default	Default
	Dewpoint	Programmable	Programmable	Programmable
	ΔTd - difference between dewpoint temperature and temperature	Programmable	Programmable	Programmable
	Direct thermistor option	N/A	N/A	N/A
GENERAL	Plug-in sensor	Yes	Yes	Yes
	Cable / sensor length	120 mm	120, 250, 500 mm	2m or 5m
	Display option	Yes	Yes	Yes
	Configuration	PC	PC	PC
	Power supply	(10 to 30) VDC *	(10 to 30) VDC *	(10 to 30) VDC *
	Ambient operating (electronics, not sensor)	(-30 to +85) °C	(-30 to +85) °C	(-30 to +85) °C
	Encapsulated electronics	Yes	Yes	Yes

Legacy Products

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

Because the Status product range is constantly evolving and growing, you might find that if you try to re-order a trusted and long-serving product, it may no longer be available in its original form.

So we thought it would be helpful to list here all discontinued products, and show you which of our current models would replace them. Then you can be sure to get the right state-of-the-art Status product, to serve you for many more years to come.

We also still have available to special order a number of older products, which are not included in the main body of this Product Guide.

As always, if you need more specific help or advice, please call us and we'll be happy to assist you.

Discontinued product	Description	Replacement
DM500	Loop-powered LCD indicator	DM700
DM540X	ATEX field-mounted display	DM640X
DM4000U	Panel meter	DM3600U
DM4000A	Panel meter	DM3600A
DM4000C	Panel meter	DM4500F - most functions
MEDACS 2100 Series	Universal input single-channel signal conditioner	SEM1700 - most functions
MEDACS 2200 Series	Universal input dual-channel signal conditioner	SEM1720 / SEM1750 most functions
MEDACS 2300 Series	Frequency input single-channel signal conditioner	SEM1600/F most functions
MEDACS 2400 Series	Frequency input dual-channel signal conditioner	SEM1600/F most functions
PTX24	Process pressure transmitter	PTX19
SEM108P	In-head temperature transmitter	SEM206P
SEM1100	Powered isolating voltage to current / current to voltage convertor	SEM1700
SEM1401 / 1402	Loop-powered trip amplifier	SEM1636
SEM1500/TC	Thermocouple DIN rail temperature transmitter	SEM1605/TC
SEM1503P	Pt100 DIN rail temperature transmitter	SEM1605/P
SEM1504/P	4-wire Pt100 DIN rail temperature transmitter	SEM1615
SEM1603	Rail-mounted temperature transmitter for Pt100 or thermocouple sensors	SEM1605P/TC
SEM1610	Universal temperature transmitter, DIN rail mount	SEM1615
SEM164	Humidity and temperature transmitter	SEM160, SEM161 or SEM162
SEM165HP	High-temperature humidity and temperature transmitter	*No direct 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
SEM310 MKI	Universal HART in-head temperature transmitter	SEM310 MKII
SEM315 MKI	DIN rail Universal HART temperature transmitter	SEM315 MKII

Older products still available

SEM104P	Analogue Pt100 temperature transmitter
SEM104TC	Analogue thermocouple temperature transmitter
SEM110P	High-accuracy analogue Pt100 temperature transmitter
STA206P	Cost-effective temperature sensor with built-in transmitter

Solution overview

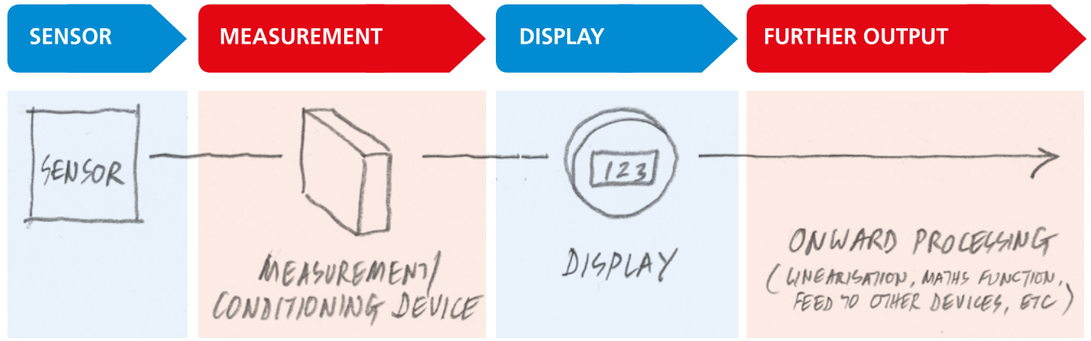
For every application, there is a Status product, and a practical solution.

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.

RESEARCH AND DEVELOPMENT | PERSONAL SERVICE | FLEXIBLE TECHNICAL SUPPORT | PARTNERSHIP AND CUSTOM DESIGN | GLOBAL REPRESENTATION | APPROVALS

CONTACT US to discuss your requirements further - www.statinst.com