STATUS INSTRUMENTS

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SEM160I USER GUIDE

SEM160iD/H/01 single two wire (4 to 20) mA output, duct mount 120 mm probe + Direct Thermistor
SEM160iD/HP/01 dual two wire (4 to 20) mA output, duct mount 120 mm probe
SEM160iD/H/02 single two wire (4 to 20) mA output, duct mount 250 mm probe + Direct Thermistor
SEM160iD/HP/02 dual two wire (4 to 20) mA output, duct mount 250 mm probe
SEM160iW/H/01 single two wire (4 to 20) mA output, wall mount + Direct Thermistor
SEM160iW/HP/01 dual two wire (4 to 20) mA output, wall mount

⚠ Important - Please read this document before any installing.

⚠ IMPORTANT - CE & SAFETY REQUIREMENTS

The product contains no serviceable parts , or internal adjustments. no attempt must be made to repair this product. Faulty units must be returned to supplier for repair.

This product must be installed by a qualified person. All electrical wiring must be carried out in accordance with the appropriate regulations for the place of installation.

Before attempting any electrical connection work, please ensure all supplies are switched off.

ABSOLUTE MAXIMUM OPERATING CONDITIONS (To exceed may cause damage to the unit):-

Supply Voltage	± 30 V dc (Protected for over voltage and reverse connection)
Current with over voltage	± 200 mA
Ambient	Sensor (-35 to 105 °C)
	Electronics (-35 to 85) °C Humidity (10 to 95) % RH (Non condensing)

PRODUCT SPECIFICATION

Please refer to the product data sheet for full specification, available to download at www.status.co.uk.

RECEIVE AND UNPACKING

Please inspect the packaging and instrument thoroughly for any signs of transit damage. If the instrument has been damaged, please notify your supplier immediately.

CLEANING

Only clean using damp cloth with water or a mild soap solution.

CONFIGURATION

⚠ To configure the device use a USB A to mini B lead. Connect the lead to the PC USB port, and the other end to the instrument

Note CH1 output and USB port of the device share the same ground, therefore care must be taken to ensure isolation between PC and output circuit.
This is best achieved by using a portable laptop or notebook PC

M-CONFIG SOFTWARE

Disk or download @
www.status.co.uk

COMPUTER

USB CABLE
A to Mini
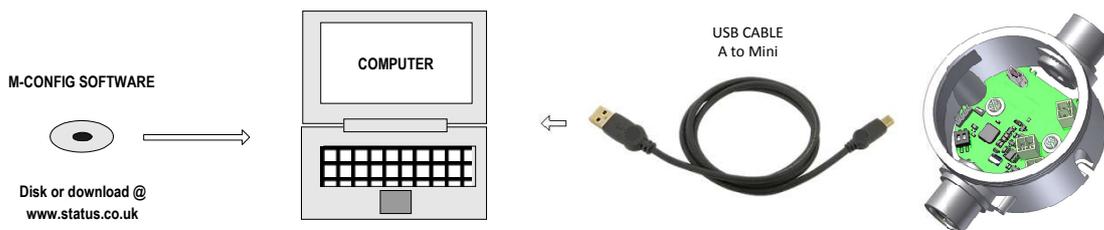
The following parameter can be configured by simply entering as prompted by the software package.

· **Tag No**
· **Ch1 (Ch2) output type (RH, Ambient , Dew point , Delta T °C**
· **Ch1 (Ch2) range**
· **Offsett of both temperature and humidity**
· **Read live data , Error signal.**
· **Error signal**
· **Sensor pre-set value**

Factory default:

SEM160i/H		
CH1	**RH**	**(0 to 100) %**
SEM160i/HP		
CH1	**RH**	**(0 to 100) %**
CH2	**Tamb**	**(0 TO 50) °C**

MECHANICAL INSTALLATION

SEM160i – 2CH VERSION

+ CH1 -

+ CH2 -
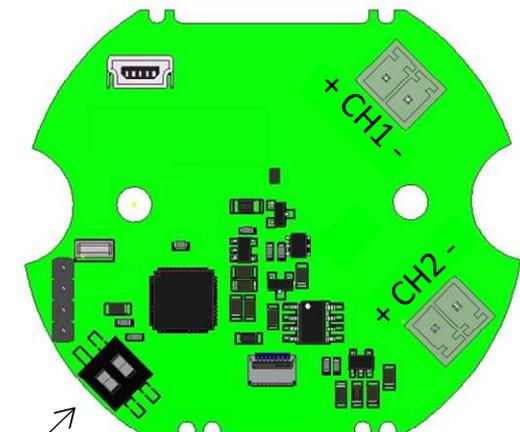
Switch to select configuration for CH2

SEM160i – 1CH VERSION

+ CH1 -

TH
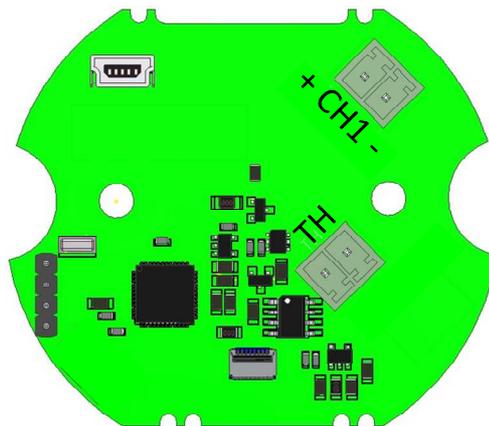
ELECTRICAL INSTALLATION

⚠ **TURN OFF SUPPLY BEFORE WORKING ON ANY ELECTRICAL CONNECTION**

SEM160i

Screw Driver Ø 3 mm

OUTPUT(S)
2 Wire (4-20) mA
Max cable length 1000 metres
Use twisted pair cable > 30 metres

SUPPLY (Vs) = (10 to 30) V dc
MAX LOAD   Ohms = (Vs - 11) / 0.021

SENSORS — RH — PT100 — MCU — COMMS — CH 1 — CH 2 — Load — Vs

SEM160I 2CH only
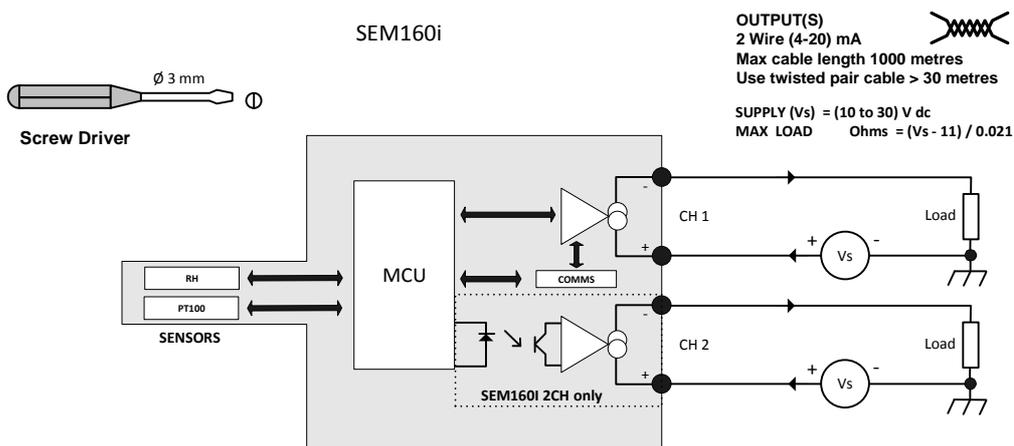
Note :160i/HP/ 2 channel version : Power must be applied on CH1 for Ch2 to operate correctly

SENSORS — RH — TH — MCU — COMMS — CH 1 — TH — Load — Vs — Ω
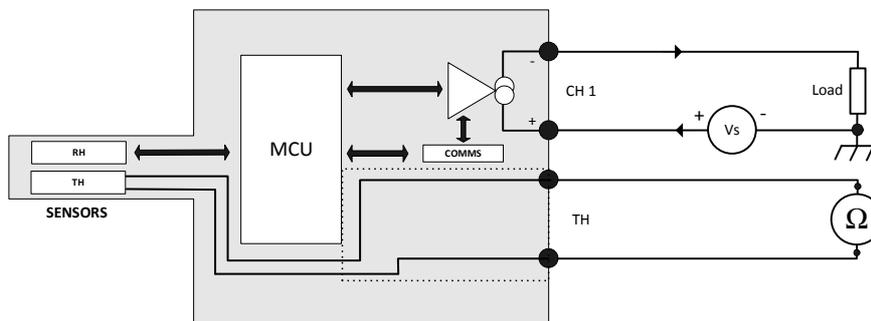
SENSOR

INSTALLATION

The RH measurement module incorporates an integrated temperature sensor.
The measured values are correct when the Humidity and Temperature are both in
equilibrium with the surrounding ambient conditions.
For optimum performance, the following recommendations must be observed:
1)   Install the sensor in the most representative location of the ambient to be controlled;
2)   Avoid direct exposure to sun and atmospheric agents;
3)   Avoid installing the sensor next to heaters, coolers, steam vents and humidifiers;
4)   Avoid turbulences which can generate unstable pressures.