

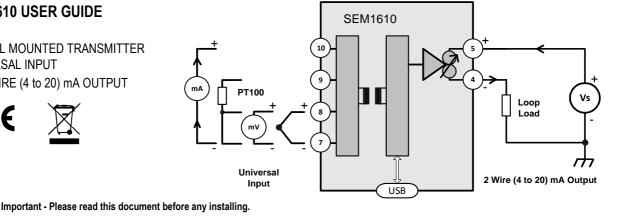
# SEM1610 USER GUIDE

INS

STATUS

DIN RAIL MOUNTED TRANSMITTER UNIVERSAL INPUT TWO WIRE (4 to 20) mA OUTPUT





Every effort has been taken to ensure the accuracy of this document, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.

## **IMPORTANT - CE & SAFETY REQUIREMENTS**

Product must be DIN rail mounted, inside a suitable enclosure providing environmental protection to IP65 or greater.

To maintain CE EMC requirements , input wires must be less than 30 metres.

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

Supply Voltage Current with over voltage Input Voltage Input Current Ambient

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 $\pm$  30 V dc  $\,$  (Protected for over voltage and reverse connection) ± 200 mA ±5 V between any terminals ± 100 mA between terminals 7 & 10 Temperature (-30 to 75) °C Humidity (10 to 95) % RH (Non condensing)

## PRODUCT SPECIFICATION

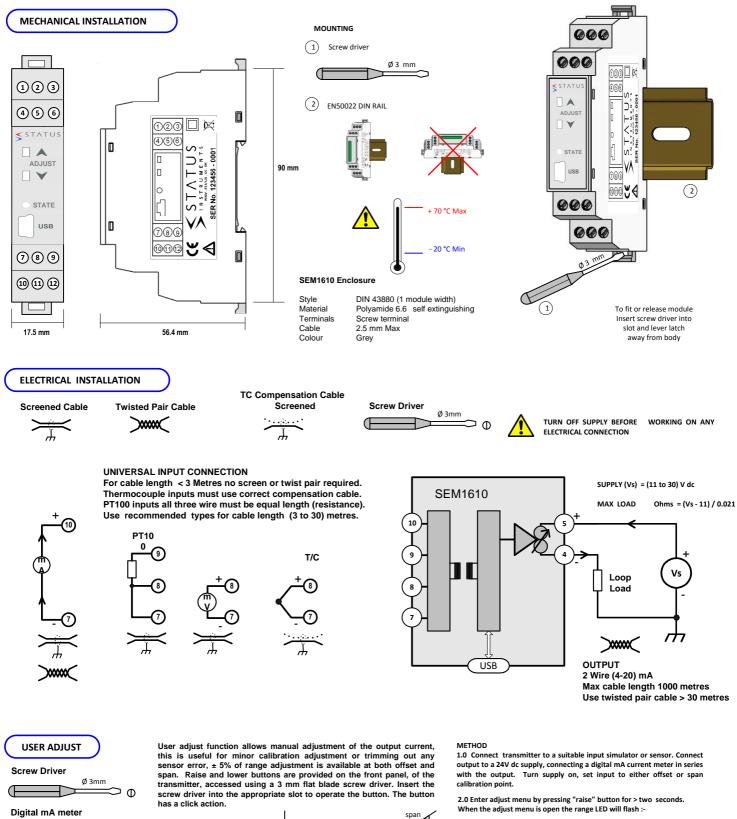
Please refer to the product data sheet for full specification, available to down load at www.status.co.uk.

#### **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.

CONFIGURATION IMPORTANT The SEM1610 can be configured whilst connected and powered, but a portable battery powered computer must be used to avoid the effects of ground loops. SEM1610 COMPUTER USB LINK SOFTWARE USB CABLE Download @ www.status.co.uk The following parameter can be configured by simply entering as prompted by the software package. Factory default Input type Units Input type (K,J,E,N,T,R,S,mV,PT100,mA) = °C · Low range High Ra = 100 · High range = 0 Low Range • Units (°C, °F, mV, mA) • Burnout (direction of output current on sensor burnout) Units = UPSCALE User Adjust = ON

User Adjust (option to lock out front panel adjust function)



20.000

Power supply (24V dc)



#### Input Simulator

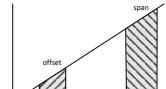


The transmitter will

automatically detect the correct adjust point (offset or span) based on the output current drive. Offset will be adjusted when the current is between (3.8 to 6) mA, span when the current is between (18 to 22) mA. No trim action occurs at any other current.

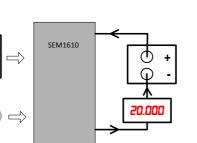
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0



18

22 mA



3.8

6

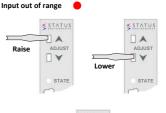


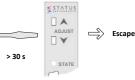
Offset slow toggle •••000 Span fast toggle  $0 \bullet 0 \bullet 0$ Out of trim range

State LED will indicate Adjust action

3.0 Adjust output current by pressing either the raise or step advance , o lower button, single click to or press auto advance.

4.0 Once adjust is complete allow 30 seconds with no button press, the transmitter will time out and return to normal operation.





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