

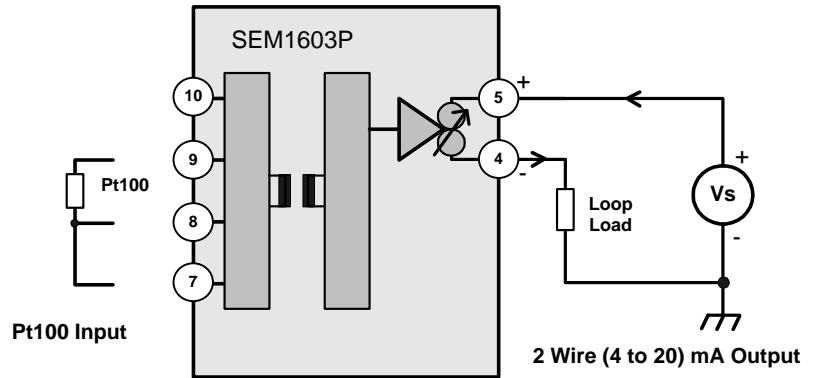
SEM1603P USER GUIDE

DIN RAIL MOUNTED TRANSMITTER
 Pt100 INPUT
 TWO WIRE (4 to 20) mA OUTPUT



Important - Please read this document before installing.

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 meters.

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 VDC (Protected for over voltage and reverse connection)
Current with over voltage	± 200 mA
Input Voltage	± 5 V between any terminals
Input Current	± 100 mA between terminals 7 & 10
Ambient	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 download at www.statinst.com.

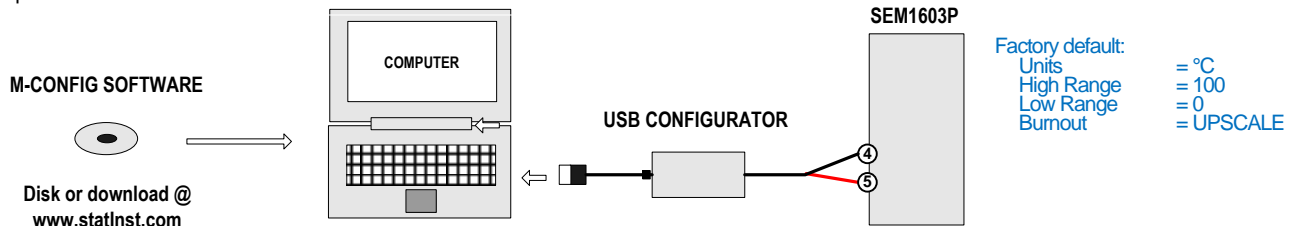
RECEIVE AND UNPACKING

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



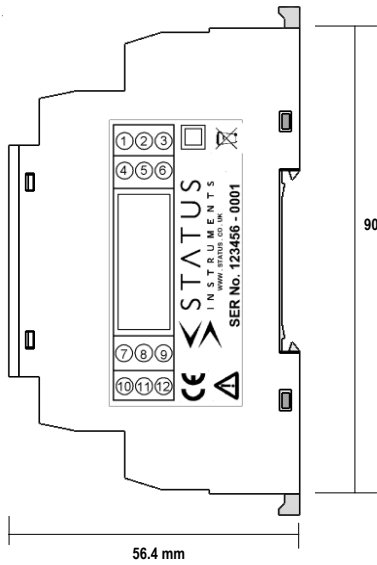
IMPORTANT - The SEM1603P can be configured while connected and powered, but a portable battery powered computer must be used to avoid the effects of ground loops.



The transmitter may be purchased pre-configured, if specified at the time of order. The user can re-configure the transmitter by using our USB configurator tool (USB KIT). Connect the configurator to the PC USB port then connect the solid gray wire to terminal 5 (+) and the black striped wire to terminal 4 (-). Then run the Status Instruments USB_CONFIG software, available free from www.statinst.com. The USB port supplies power to the SEM1603P during configuration, no additional wiring is required. The following parameter can be configured by simply entering as prompted by the software package.

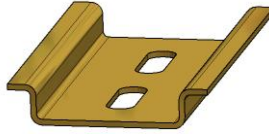
- Units (°C, °F)
- Low range
- High range
- Burnout (direction of output current on sensor burnout)

MECHANICAL INSTALLATION



MOUNTING

- ① Screw driver
- ② EN50022 DIN RAIL

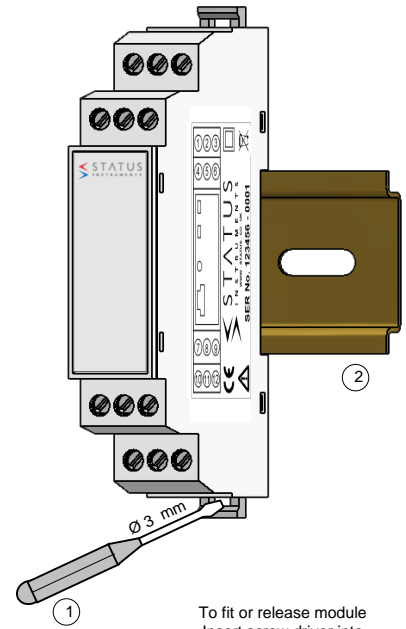


+ 70 °C Max

- 20 °C Min

SEM1603 P Enclosure

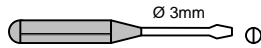
Style	DIN 43880 (1 module width)
Material	Polyamide 6.6 self extinguishing
Terminals	Screw terminal
Cable	2.5 mm Max
Color	Gray



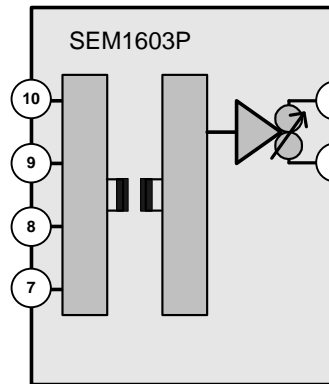
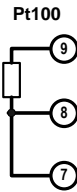
To fit or release module
Insert screw driver into
slot and lever latch
away from body

ELECTRICAL INSTALLATION

Screw Driver

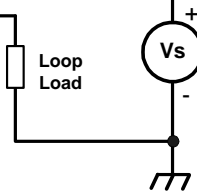


TURN OFF SUPPLY BEFORE WORKING ON ANY ELECTRICAL CONNECTION



SUPPLY (Vs) = (11 to 30) VDC

MAX LOAD Ohms = (Vs - 11) / 0.021



INPUT CONNECTION

For cable lengths < 3 meters shielded or twisted pair is not required.
For cable lengths > 3 meters and < 30 meters shielded or twisted pair is required.
Cable lengths > 30 meters are not recommended.

OUTPUT

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