STATUS INSTRUMENTS

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SEM1630 USER GUIDE

DIN RAIL MOUNTED TRIP
AMP
UNIVERSAL INPUT
DUAL Form C OUTPUT

Universal Input

Dual trip Output
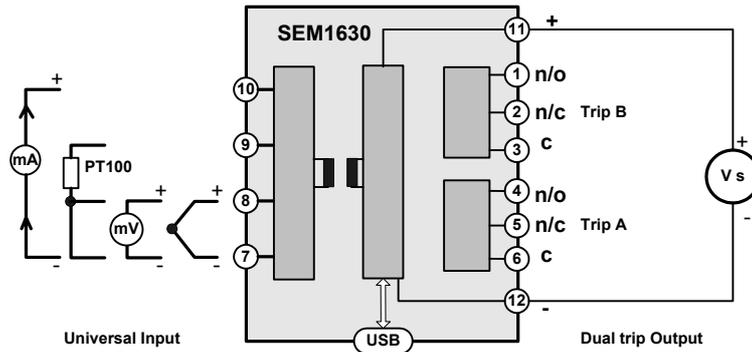
Important - Potentially Hazardous situations. Persons responsible for the installation and operation of this equipment must be fully aware of all aspects of this guide. Failure to follow the instructions can cause severe injuries and damage.

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

This product is suitable for enviroment Installation category II pollution degree.
The product is classed as "PERMANENTLY CONNECTED EQUIPMENT".
Product must be DIN rail mounted, inside a suitable enclosure providing environmental protection to IP65 or greater.
Dc supply must be derived from a local supply and not a distribution system.
Max relay contact rating 250 V AC @ 1 a (30 V DC @ 1A). Any circuit connected to a contact must be fused with a 2A (T) fuse.
To maintain CE EMC requirements , input and supply 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 OPERATING CONDITIONS:-

Supply Voltage	± 30 V dc (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 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 SEM1630 can be configured whilst connected and powered, but a portable battery powered computer must be used to avoid the effects of ground loops.


M-CONFIG SOFTWARE

Disk or download @
www.status.co.uk

COMPUTER

USB CABLE

SEM1630
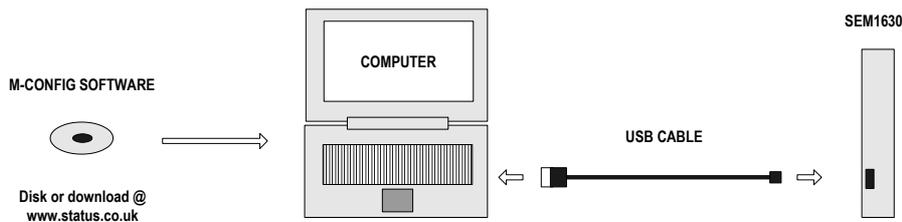
The following parameter can be configured by simply entering as prompted by the software package.

· **Input type (K,J,E,N,T,R,S,mV,PT100,mA)**
· **Setpoint Trip A & B**
· **Hysterisis Trip A & B**
· **Units   (°C, °F, mV, mA)**
· **Trip A & B Level (High or Low)**

Factory default:	
Input type	= P
Units	= °C
Trip A	= H
Setpoint Trip A	= 50
Hysterisis Trip A	= 1
Trip B	= H
Setpoint Trip B	= 50
Hysterisis Trip B	= 1

MECHANICAL INSTALLATION
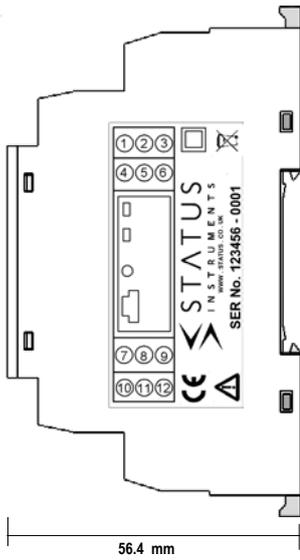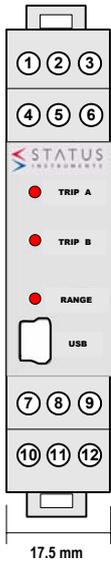
MOUNTING

① Screw driver

Ø 3 mm

② EN50022 DIN RAIL

+ 70 °C Max

- 20 °C Min
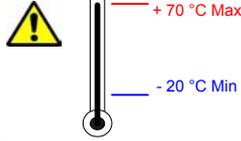
SEM1630 Enclosure

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

90 mm

17.5 mm

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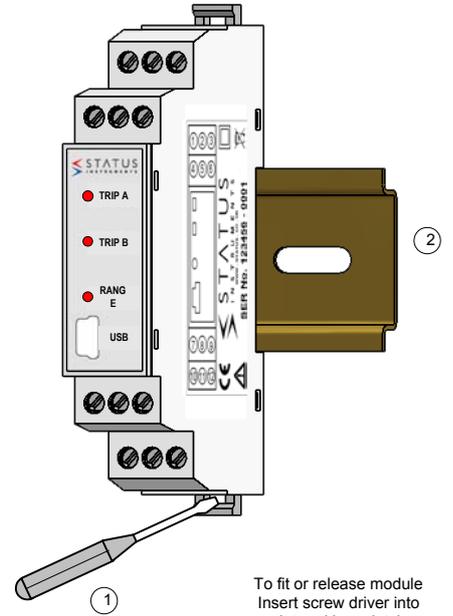
To fit or release module
Insert screw driver into
slot and lever latch
away from body

ELECTRICAL INSTALLATION

Screened Cable

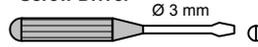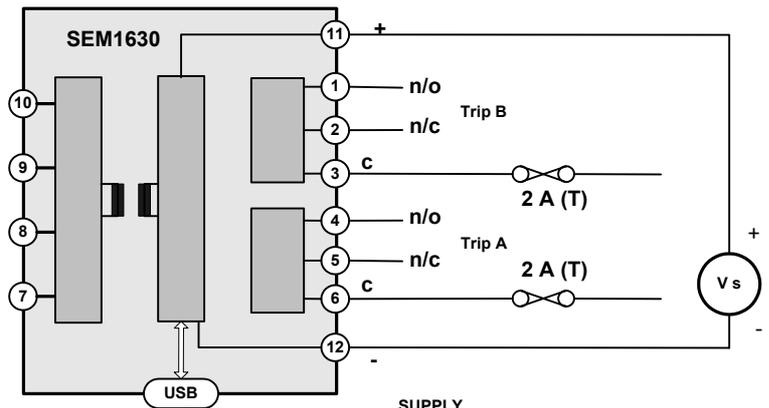**Twisted Pair Cable**

TC Compensation Cable Screened
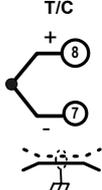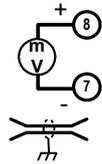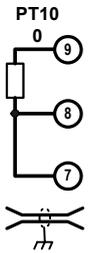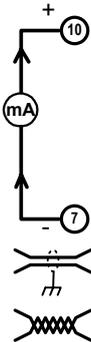
Screw Driver

Ø 3 mm

1.0 TURN OFF SUPPLY BEFORE WORKING ON ANY ELECTRICAL CONNECTION.

2.0 FUSE CONTACT CIRCUITS 2 A (T).

3.0 MAX CONTACT RATING 250 V ac (30 V dc) @ 1 A

UNIVERSAL INPUT CONNECTION
For cable length < 3 Metres no screen or twist pair required.
Thermocouple inputs must use correct compensation cable.
PT100 inputs all three wire must be equal length (resistance).
Use recommended types for cable length (3 to 30) metres.

+
⑩
mA
⑦
−

PT100
⑨
⑧
⑦

+
⑧
mV
⑦
−

T/C
+
⑧
⑦
−

SEM1630

⑩
⑨
⑧
⑦

⑪ +
① n/o
② n/c   Trip B
③ c   2 A (T)
④ n/o
⑤ n/c   Trip A
⑥ c   2 A (T)
⑫ −

V s
+
−

USB

SUPPLY
Max cable length 30 metres

FRONT PANEL INDICATION

Trip A alarm LED on in alarm state

Trip B alarm LED on in alarm state

Range LED on when input is out of range

USB configuration port

TRIP A

TRIP B

RANGE

USB