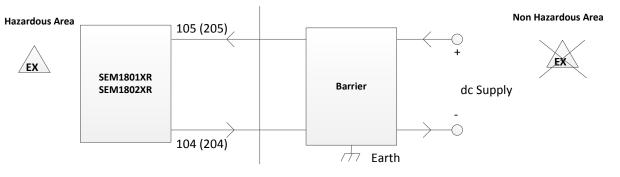
4. Install assembly

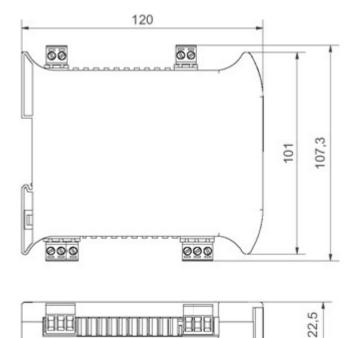
Care must be taken to ensure the SEM1801XR SEM1802XR is located to ensure the ambient temperature does not exceed the specified operating temperature as specified in the "TEMPERATURE CLASS" table.

5. Wire (4 to 20) mA Loop

Ensure all other aspects of the installation comply with the requirements of this document, paying particular attention to the loop barrier. The (4 to 20) mA loop is connected as follows:-



Mechanical Detail



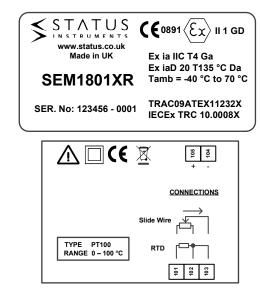


ATEX Instructions

For safe installation of the SEM1801XR SEM1802XR in hazardous areas the following instructions must be observed. The transmitter must be installed by competent personnel, who are familiar with national and international laws, directives and standards that apply to their region. For installation in European Economic Area (EEA) member countries users must follow requirements for electrical equipment for use in potentially explosive atmospheres, e.g. EN60079 14 & EN60079 17. This instruction sheet describes installation, which conforms with BS EN60079 14 & BS EN60079-17. Important - Particular attention must be paid to the section titled "Special conditions for safe use", failure to comply to this requirement will result in an unsafe system. The SEM1801XR SEM1802XR has been issued with a EC-type examination certificate, confirming compliance with European ATEX directive 94/9/EC for the following specification :-

Product Information		Zones		
Following Information is printed on the product label		Area Classification		Zone Criteria for Application Atmosphere
		Gases	Dusts	Zone Criteria for Application Atmosphere
Manufacturer	Status Instruments Ltd	Zone 0		 Present continuously or for long periods
Type Numbers	SEM1801XR, SEM1802XR		Zone 20	(> 1000 hrs per annum)
		Zone 1		 Likely to occur in normal operation occasionally
Certificate Ref	TRAC09ATEX11232X		Zone 21	(> 10 to < 1000 hrs per annum)
	IECEx TRC 10.0008X	Zone 2		 Unlikely to occur in normal operation
			Zone 22	(> 10 hrs per annum)

Classification



Working Parameters

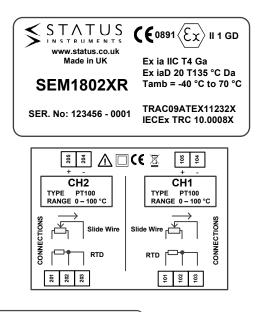
	TERMINALS			TERMINALS SEM1802XR		
	104,105	101,102,103		204,205	201,202,203	
Ui li Pi Ci Li Uo Io Po	30 V 100 mA 750 mW 0 0 - -	1.5 V - - 1.5 uF 0 5 V 2 mA 65 mW		30 V 100 mA 750 mW 0 0 -	1.5 V - - 1.5 uF 0 5 V 2 mA 65 mW	

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.



User instruction for SEM1801XR SEM1802XR electrical apparatus for use in explosionhazardous area. Important, read and understand this document before any installation.





Additional Information

EMC BS EN 61326-1 (Sensor wires max 3 metres to comply.) Grey with Blue Terminals Enclosure

Special conditions for safe use



- For gas applications, the SEM1801XR & SEM1802XR temperature transmitters must be mounted in a metallic 1. enclosure rated for IP54 or an Atex/IECEx approved enclosure rated for IP54 and located in an area where the enclosure will not be subject to impact or friction.
- For dust applications, the SEM1801XR and SEM1802XR temperature transmitters must be mounted in a suitably 2. ATEX or IECEx certified enclosure appropriate for the zone of end use.
- The equipment shall only be configured by means of the USB connection outside the hazardous area. 3.
- If the equipment is mounted in an enclosure with separate IS circuits, appropriate segregation shall be provided in 4. accordance with IEC 60079-11 Clause 6.2.1.
- 5. Only suitable for connection to RTD temperature sensors or slide wire resistance devices or a simple apparatus. They shall conform to the requirements for simple apparatus as defined in IEC 60079-11 Clause 5.7 and shall pass a dielectric strength test in accordance with IEC 60079-11 Clause 6.3.12.
- 6. The ambient temperature range of the enclosure will limit the permitted ambient range of the overall equipment. Refer to enclosure certification.

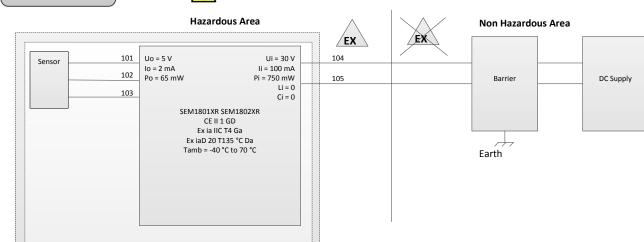
Maintenance

The appropriate regulations concerning maintenance, repair and testing must be observed. In particular, all parts on which explosion protection depends must be checked during maintenance. The transmitter must never be configured in the hazardous area, the device must be removed and taken to a non hazardous area for configuration.

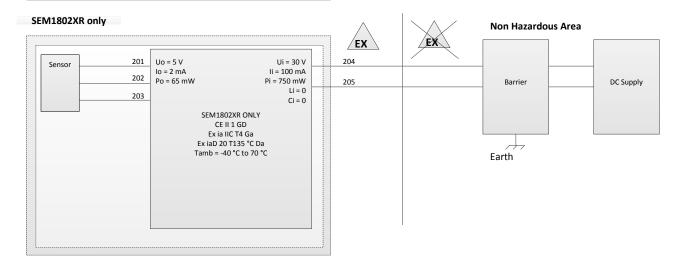
The enclosure used to house the device must be cleaned regularly to prevent build up of excessive dust layers.

The apparatus contains no user serviceable adjustable, replaceable parts. No attempt should be made to repair a device, all units must be returned to the manufacturer for repair or replacement. Attempted service or replacement of parts may invalidate the explosive protection features of the SEM1801XR,SEM1802XR.

Electrical Detail



REFER TO CONDITIONS FOR SAFE USE





1

2.

3.

5.



For SEM1801XR and SEM1802XR specification please refer to product data sheet. Installation is normally performed in the following order.

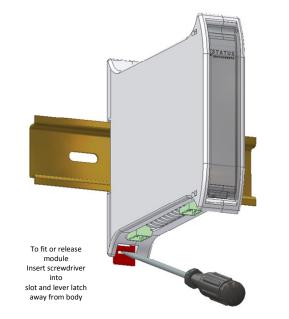
- Configuration
- Mount Transmitter onto rail
- Wire Sensor
- 4. Install Assembly
 - Wire (4 to 20) mA Loop

1. Configuration COMPUTER USB Speed_LINK Softwar \bigcirc Disk or download @ www.status.co.uk

> Follow the instructions provided by software menus, refer to SEM1801XR SEM1802XR data sheet for list of configurable parameters, Factory default PT100 range (0 to 100) °C upscale burnout

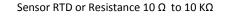
2. Mount Transmitter

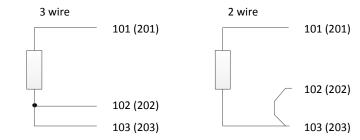
The device must be installed with adequate protection from moisture and corrosive atmospheres. Refer to "special conditions for safe use" section of this user guide for information on enclosure IP rating. Observe the "special conditions for safe use" instruction.



3. Wire sensor.

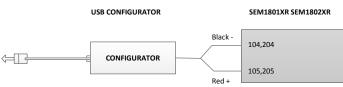
be isolated from ground.





Sensor wires must be isolated from earth breakdown voltage 500 V dc

D2558-01-02 CN5080 sem1801 2XR User Guide



Screwdrive

Ø3 mm

Enclosur

Style Materia Terminals Cable Colour

DIN Rail Mount Blend PC/ABS self extinguishing Screw termina 2.5 mm Max Grey terminals Blue

Sensor connections are as follows, to maintain BS EN61326 compliance sensor wires must be less than 3 metres. All sensor connections must

Slide Wire (1 to 100) Kohm

