

# 4-20mA Remote Wall Mounted Housing, Pt100 input 1 metre lead RTD / PRT. F/G+SSOB cable insulation with 0-400Å, Å°C transmitter range



## TRANSMITTER SPECIFICATION @ 20 °C

|                           |   |
|---------------------------|---|
| <b>INPUT</b>              |   |
| Sensor Type               | PT100 100R @ 0°C 2 or 3 Wire              |
| Sensor Range              | (-200 to +850) °C (18 to 390) °C          |
| Sensor Connection         | Screw terminal                            |
| Minimum span (*1)         | 25°C                                      |
| Linearisation             | BS EN 60751(IEC 751) standard / IISC 1604 |
| Measurement Accuracy (*2) | 0.2°C ± 0.05% of Reading                  |
| Thermal Drift             | 0.0025 % / °C                             |
| Excitation current        | <200 uA                                   |
| Lead Resistance effect    | 0.002 °C / Ohm                            |
| Maximum lead Resistance   | 20 Ohms per leg                           |

|                     |   |
|---------------------|---|
| <b>OUTPUT</b>       |   |
| Output              | Type 2 wire (4 to 20) mA current loop                     |
| Output range        | (4.0 to 20.0) mA  |
| Output Connection   | Screw Terminal  |
| Maximum output      | 21.5mA (in high burnout condition)                        |
| Minimum output      | <3.9 mA (in low burnout condition)                        |
| Accuracy            | (mA output / 2000) or 5 uA<br>(Which ever is the greater) |
| Loop Voltage effect | 0.2 uA / V  |
| Thermal drift       | 1 uA / °C   |
| Maximum output load | [(Vsupply-10)/21]K Ohms<br>(Example: 700 Ohms @ 24V)      |

## GENERAL SPECIFICATION

|               |  |
|---------------|--|
| Update time   | 500 ms                                   |
| Response Time | 1 second                                 |
| Start up time | 4 seconds (1 out < 4 mA during start up) |
| Warm-up time  | 1 minutes to full accuracy               |
| Power Supply  | (10 to 30) Volts dc                      |

## PUSH BUTTON CONFIGURATION

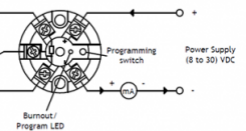
A single push button and LED indicator allows the user to navigate a three menus, allowing configuration of the transmitter. The menus are as follow:-

- Menu 1 Configure range.
- Menu 2 Configure burnout direction.
- Menu 3 Trim output current @ either 4 mA or 20 mA

## ENVIRONMENTAL

|                             |                                |
|-----------------------------|--------------------------------|
| Ambient operating range     | (-40 to +85) °C                |
| Ambient storage temperature | (-50 to +90) °C                |
| Ambient humidity range      | (10 to 90) % RH non condensing |

Note \*1 Any span may be selected, full accuracy is only guaranteed for spans greater than the minimum recommended  
Note \*2 Basic measurement accuracy includes the effects of calibration, linearisation and repeatability



Labfacility are the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockings of Thermocouple Cables. The Company has been trading since 1971 and is ISO9001 accredited.

Housing moulded in general purpose ABS, the external fixing points provide a simple and rapid means of mounting sensors directly onto ducts, dispensing with the need for separate mounting plates.

### Specifications

## Specifications

|                            |   |
|----------------------------|---|
| <b>Product Code</b>        | XE-5521-001   |
| <b>General Description</b> | Compatible with Pt100 platinum resistance thermometers                |
| <b>Sensor Type</b>         | Surface Mounting for remote installation                              |
| <b>Cable Length</b>        | 1m  |
| <b>Core / Strands</b>      | 7/0.2mm   |
| <b>Cable Termination</b>   | Bare tails  |
| <b>Thread</b>              | Entry Threads M16   |
| <b>Transmitter</b>         | Yes   |
| <b>Range</b>               | -50°C to +150°C or 0°C to +400°C (either can be re-ranged if desired) |
| <b>Output</b>              | 4-20 mA output  |