4-20mA Remote Wall Mounted Housing, Pt100 input 1 metre lead RTD / PRT. PFA Teflon cable insulation with -50 to -150Â,Â°C transmitter range





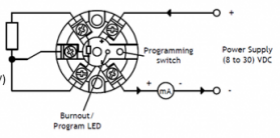
TRANSMITTER SPECIFICATION @ 20 °C

INPUT

Sensor Type	PT100 100R @ 0°C 2 or 3 Wire
Sensor Range	(-200 to +850) °C (18 to 390) Ω
Sensor Connection	Screw terminal
Minimum span (*1)	25°C
Linearisation	BS EN 60751(IEC 751) standard /JISC 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

OUTPUT

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 (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 (Example: 700 Ohms @ 24V)



GENERAL SPECIFICATION

Update time	500 ms
Response Time	1 second
Start up time	4 seconds (I 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

Product Code	XE-5520-001
General Description	Compatible with Pt100 platinum resistance thermometers
Sensor Type	Surface Mounting for remote installtion
Cable Length	1m
Core / Strands	7/0.2mm
Cable Termination	Bare Tails
Thread	Entry Threads M16
Transmitter	Yes
Range	-50°C to +150°C or 0°C to +400°C (either can be re-ranged if desired)
Output	4-20 mA output