1. INSTALLATION

The models covered by this manual have three different DIN case sizes (refer to section 10). Some installation details vary between models. These differences have been clearly shown.

Note: The functions described in sections 2 to 9 are common to all models. In calling Option Module 1, 2 or 3 in instruments

Panel Mounting

The mounting panel must be rigid, and may be up to 6.3mm (1/4") thick (3/8""). Cut-out Dimensions

Cut-Out Dim A: 190mm (7-1/2") Dim B: 90mm (3-1/2") Dim C: 90mm (3-1/2") Dim D: 50mm (2"")

Mounting Panel

Instruments must be mounted towards rear face of mounting panel until the lugs engage in rack hitches and instrument is clamped in position.

Mounting Struts

Hold instrument firmly in position (apply pressure to bezel pressure)

CAUTION: Do not remove the panel gasket; it is a seal against dust and moisture.

2. SELECT MODE

Select mode is used to access the configuration and operation menu functions. It can be accessed at any time by holding down and pressing . To select sub menu, please refer to page 3. An unlock code is required to prevent unauthorised entry to Configuration & Setup modes. Please refer to Unlock code section 7 of this manual, if there is no key activity for 2 minutes.

3. CONFIGURATION MODE

Set Configuration mode from Select mode (refer to section 2). Note: The instrument will always return automatically to Operator mode if there is no key activity for 2 minutes.

Note: Parameters displayed depends on how instrument has been configured. Refer to user guide (available from your supplier) for further details. Parameters marked * are repeated in Setup Mode.

Display Value

On the remote setpoint input is disabled. Note: At first power-up the message will be displayed. Refer to section 7 of this manual. Access to other menus is denied until configuration mode is completed.

Continued on next page...
10. SPECIFICATIONS

10.1 UNIVERSAL INPUT
Thermocouple
-0.1% of full range, \pm 150°C (for Thermocouple CJC).

Calibration
BS5437, BS5125 & BS584.

Input Ranges
-0.1% of full range, \pm 150°C.

Sampling Rate
4 per second.

Impedance
-0.1% of full range, \pm 150°C.

Sensor Type
-10% resistance, except DC mA (4-20mA) and V (4-20V).

Temperature
-10% resistance, except DC mA (4-20mA) and V (4-20V).

DC Calibration
-10% resistance, except DC mA (4-20mA) and V (4-20V).

10.2 DIGITAL INPUTS

Volt-free (TTL):
0-240V DC = SP1, SP Local or Auto Mode, Closed=16VDC = SP2, Remote SP or Manual Mode.

Relay Output
-100% isolation from inputs and other outputs.

10.3 DIGITAL OUTPUTS

Number of Outputs
-4

Current Power Levels
-0.01 to 1A (full cycle rms on-state @ 25°C).

Polarity
-0.0% (ON/OFF) and 0.5% to 100% of full power.

10.4 OPERATING CONDITIONS (FOR INDOOR USE)

Ambient
-0°C to 50°C (Operation), -20°C to 80°C (Storage).

Relative Humidity
-20% to 95% non-condensing.

Supply Voltage
-110-240VAC, 50/60Hz, 7.5VA. (For mains powered versions).

Power Requirements
-20 to 28V DC (nominal) into 9130 minimum resistance.

Isolation
-20 to 28V DC (nominal) into 9130 minimum resistance.

10.5 ENVIRONMENTAL

Standards
CE, UL, FCC.

EMC
-Complies with EN61326 (Electromagnetic Emissions & Susceptibility).

Safety
-Complies with IEC62233 (Safety).

Conclusions
-Compliance with Pollution Degree 2, Installation Category 2.

Front Panel Sizing
-To FIPS (FIP) behind the panel.

Physical
-Physical Front: 150 mm x 125 mm x 48 mm (225 mm x 225 mm x 48 mm for mains powered versions).

Depth Behind Panel
-110 mm x 110 mm x 55 mm (60 mm x 60 mm x 55 mm for mains powered versions).

Weight
-0.21kg maximum.