1. INSTALLATION

Some installation details vary between the three model sizes covered by this manual (refer to section 10). These differences have been clearly shown.

Installing Option Modules: 1/2 Din Size Instruments

Panel-Mounting
The mounting panel must be rigid, and may be up to 8mm (0.32inch) thick. Cut-out Dim A is 460 x 120mm (1 7/8 x 4 3/4in). For n multiple instruments mounted side-by-side, cut-out Dim B is 460 x (2 x n)mm (1 7/8 x (2 x n)in). Mounting Panel

1. Mounting Housing
2. Connectors
3. Gaskets

Rear Terminal Wiring
Use COPPER CONDUCTORS (EXCEPT FOR 2 INPUTS). CABLE RATING 5MC MIN Single Strand wire gauge: Max. 1.2mm (18WG)

The diagrams below show all possible option combinations. The actual connections required depends on the exact model and options fitted.

CAUTION: To access module 1, 3 or 6, first detach the PSU and CPU boards from the front by lifting the upper, and then lower mounting slats. Gently separate the boards, plug the required option modules into the correct connectors, as shown below.

Locate the module tongues in the corresponding slot on the opposite board, and re-fit mounting clamp.

Push clamp forward, using a tool if necessary, until gasket is well compressed and instrument held firmly in position.

2. Handle front bezel firmly (without pressing on display area), re-fit mounting clamp.

3. CAUTION: For an effective IP66 & NEMA4K seal against dust and moisture, ensure gasket is well compressed against the panel, with the 4 tongues located in the same ratchett slot.

Ratchets
The ratchets are required to mount Struts.

Din Size

- 2= 1.2mm (18SWG)
- 3= 1.6mm (16SWG)
- 4= 2.0mm (14SWG)
- 5= 2.4mm (12SWG)

- 1= 3.0mm (10SWG)
- 2= 3.5mm (8SWG)
- 3= 4.0mm (6SWG)
- 4= 4.8mm (5SWG)
- 5= 6.0mm (4SWG)

L= 1.25m (50in)
W= 200mm (8in)

Mounting Struts
Mounting Panel

- PL8 & PL7
- PL6 & PL5
- PL4B & PL4A

- PL3 & PL2
- PL2 & PL1
- PL1 & PL5

Refer to section 10) and a.

Mounting Panel

- PL7 & PL8

Mounting Struts

- PL5 & PL6

Mounting Panel

- PL4B & PL4A

Mounting Struts

- PL3 & PL2

Mounting Panel

- PL2 & PL1

Mounting Struts

- PL1 & PL5

Note: If all power-up the message Goto Conf is displayed, as described in section 7 of this manual. Access to other menus is denied until configuration mode is completed.
5. AUTOMATIC TUNING MODE - Alrun

First select Automatic tuning mode from Setup mode (see section 2). Press to scroll through the modes, then press or to set the required value. Value will be displayed automatically, and then press to return to Setup. Tuning is a single-shot routine and a troubleshooting function completes the process. Press or to set to default. Before tuning will attempt to run on power up.

Note: Automatic tuning will not engage if either proportional band is at 1% or less. The PV will be less than 5% of input span from the setpoint.

6. PRODUCT INFORMATION - iPeo

First select Product information mode from Setup mode (see section 2). Press to scroll through the parameters, then press or to return to Setup. Note: Parameters displayed will be based on how instrument is configured.

7. MESSAGES & ERROR INDICATIONS

These messages indicate an error that has occurred or there is a problem with the process variable signal or its wiring. Caution: Do not continue with the process until the issue is resolved.

8. OPERATOR MODE - DPx

First select Operator mode from Setup mode (see section 2). Note: All Configuration mode and Setup mode parameters must be set as required before operating mode parameters are displayed. Press to scroll through the parameters, then press or to set the required value. Note: All Operator Mode parameters in configuration display 4 are read only (see iSP in configuration mode), they can only be adjusted via Setup mode.

9. SERIAL COMMUNICATIONS

Refer to the full user guide (available from your supplier) for details.

10. SPECIFICATIONS

Universal Input

Thermocouple Calibration: ±0.1% of full range, ±1LS (±1°C for Thermocouple CJC).
PT100: ±0.1% of full range, ±1LS. (BS1904 & DIN43760 (0.025%±0.3°C)
DC Current: ±0.1% of full range, ±1LS. (±10mA input)
DC Voltage: 4 → 20mA, 0 → 5V and 0 → 10V range only. Control output turn-off is only valid for iSP or the active SP.

Remote Setpoint Input (100 device load)

Sampling Rate: 4 per second.
Sensor Break 4 → 20mA, 10V and 5V ranges only. Control output turn-off is only valid for iSP or the active SP.

Isolation: ± 1°C inaccuracy at ±1LS (47kohm = selection via digital input (if available) or a hazardous voltage).