1. INSTALLATION

The wiring covered by this manual has 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 through 9 are common to all models.

In all Option Module Installations, the connections for the two 1/2 DIN size instruments are as follows:

**CPU Module**: Windows, Option A, Option B, Option C
**Option Module 1**: PSU, Option A
**Option Module 2**: Option A, Option B
**Option Module 3**: Option A, Option B
**Option Module 4**: Option A, Option B

To access modules 1, 2, and 3, first detach the PSU and CPU boards from the front of the unit. Gently separate the boards.

a. Plug the required option modules into the correct connectors, as shown below.

b. Locate the module tongues in the corresponding slot on the opposite board.

c. Hold the main boards together while relocating back on the mounting struts.

d. Replace the instrument by aligning the CPU and PSU boards with their guides in the housing, then slowly push the instrument back into position.

Note: Option modules are automatically detected at power up.

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 the correct menu mode, press . To enter an unlock code is required to prevent unauthorised entry to Configuration & Setup mode. Press or to enter the unlock code, then press to proceed.

3. CONFIGURATION MODE

To select the Configuration mode from Select mode (refer to section 2). Press to scroll through the parameters, then press or to set the required value.

Press to accept the change, otherwise parameter will revert to previous value. To exit from Configuration mode, hold down and press to return to Select mode.

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.

4. OPERATION

Some installation details vary between models. These differences have been clearly shown.

Note: Decimal point shown in table indicates temperature resolution of 0.1°C.

5. INSTALLATION

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

**CAUTION**: Check information on label for correct operating voltage before connecting supply to Power Input Fuse 100 – 240V ac – Tamp-Proof Terminals 2448V ac – 315mA anti-surge

Note: At first power-up the message will be displayed as described in section 7 of this manual. Access to other menus is denied until configuration mode is completed.

6. 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 the correct menu mode, press . To enter an unlock code is required to prevent unauthorised entry to Configuration & Setup mode. Press or to enter the unlock code, then press to proceed.

7. CONFIGURATION MODE

To select the Configuration mode from Select mode (refer to section 2). Press to scroll through the parameters, then press or to set the required value.

Press to accept the change, otherwise parameter will revert to previous value. To exit from Configuration mode, hold down and press to return to Select mode.

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.

8. OPERATION

Some installation details vary between models. These differences have been clearly shown.

Note: Decimal point shown in table indicates temperature resolution of 0.1°C.

9. INSTALLATION

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

**CAUTION**: Check information on label for correct operating voltage before connecting supply to Power Input Fuse 100 – 240V ac – Tamp-Proof Terminals 2448V ac – 315mA anti-surge

Note: At first power-up the message will be displayed as described in section 7 of this manual. Access to other menus is denied until configuration mode is completed.
### 4. SETUP MODE

Note: Configuration must be completed before adjusting Setup parameters. First select Setup mode from Select mode (refer to section 2). Press **SET** associated with each parameter. Then press **UP** or **DOWN** to set the required value. From Setup mode, press **SET** to return to Select mode. Pre-tune is a single-shot routine and is thus self-disengaging when complete. If R/P in Setup mode = ON, Pre-tune will attempt to run at every power up. Refer to the full guide (available from your supplier) for details on complete tuning.

### 5. PRODUCT INFORMATION

First select Automatic tuning mode from Select mode (refer to section 2). Press **SET** to scroll through the modes, then press **UP** or **DOWN** to set the required value. To exit from Automatic tuning mode, hold down and press **SET** to return to Select mode.

### 6. MESSAGES & ERROR INDICATIONS

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

### 8. OPERATOR MODE

This mode is external power on, or accessed from Select mode (see section 2). Note: All Configuration mode and Setup mode parameters must be set as required before selecting Operator mode. Press **SET** to scroll through the parameters, then press **UP** or **DOWN** to set the required value. Note: All Operator Mode parameters in display strategy 6 are read only (see $D$ in configuration mode), they can only be adjusted via Setup mode.

### 9. SERIAL COMMUNICATION

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