Installation Safety Requirements

Various symbols used on the instrument are described below:

Caution: Refer to the Functional terminal diagram accompanying the instruction.

Installation Category and Pollution Degree
This unit has been designed to comply with IEC EN61010 installation category II and pollution degree 2. These are defined as follows:

- Installation category II: The rated impulse voltage of equipment is 6.4kV.
- Pollution degree 2: Normally, only non-conductive pollution occurs. However, a temporary conductivity caused by condensation must be expected.

Warning
If on receipt, the packaging or unit are damaged, do NOT install, but contact the supplier. The equipment is not to be used until checked out.

Caution: Electrostatic discharge
Always observe all electrostatic precautions, before handling the unit.

Power Supply
The 2704 has a 120 x 160 pixel electroluminescent display of all process value and seven front panel keys.

The 2604 has a dual 7-segment display of process value and setpoint with a LCD and seven front panel keys.

Each unit is supplied as a specific hardware configuration, e.g. there are five 'slots' within the requirements of the European Directives on Safety and EMC.

Caution
Do not connect AC supply to low voltage sensor input or low level inputs and outputs.

Analog Input Terminals
The Analogue Input Terminals (BA and BB) accept volts, e.g. 0-10Vdc, or milliamp, e.g. 4-20mA.

Note: The terminals are NOT isolated from the Digital I/O and do NOT support direct input from a Thermocouple.

Legend Supply
The 2704 has a 120 x 160 pixel electroluminescent display of all process value and seven front panel keys.

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DIRECT PANEL MOUNTING

1. Check that the mounting panel is not thicker than 17mm (0.68 inches) (typically for wood or plastic) and not thinner than 2mm (0.08") (for steel).
2. In the mounting panel, cut an aperture 96mm x 92mm (+ .8mm).
3. If the mounting panel is not already mounted, mount it to the wall or furniture to which it is to be fixed using the screws provided.
4. Insert the Unit through the panel cut out.
5. Ensure the Unit is held in position using the panel retaining clips supplied.

REMOTING THE CONTROLLER

The controller can be mounted in a separate location by using the linking cables on either side of the sleeve forwards and pulling the controller forward. When fitting the controller back into the sleeve, ensure the linking cable is clicked into place.

WARNING

For safety reasons and to prevent premature wear on the connectors the Power in the Unit MUST be switched off before remoting the controller.

COMMUNICATIONS - DeviceNet™

Protocol is DeviceNet™ interface requiring each node to have a unique address on the DeviceNet™ network and must be set to the same baud rate.

INPUT TYPES

These support 4-20mA Power Supply (PV), 0-20mA Power Supply (PV), and Analogue Input (AI) Modules, any position except Module position 5.

OUTPUT TYPES

These support Digital Output (DO) Modules to any Input. The Screen from each cable should be connected through and grounded at one point only.

Note: Common connections to the IN terminals must be returned to the IN terminal.

COMMUNICATIONS - Modbus

Protocol is Modbus RTU, EIA232, EIA485 3-wire or 5-wire.

Note: The Modbus network connection is via the HA to HP and JA to JB terminal connections. Units MUST be connected in a daisy-chain method using twisted pair cables.

Note: The Screen from each cable should be connected through and grounded at one point only.

CAUTION

Power Taps are recommended if connecting a DC power supply to the DeviceNet™ trunk line. To connect multiple power supplies, fit a schuko plug to the V+ of each Power Supply or use Circuit Breakers to protect the bus from excessive current, that may cause damage to the cables and connectors. Connect the Instrument Earth terminal, HP, to the node power supply earth terminal.