Panel-Mounting
The mounting panel must be rigid, and may be up to 6.0mm (0.236inch) thick. Cut-out dimensions are:
Cut-Out Dim A: 1/8 in = 24mm, 1/4 in = 42mm
Cut-Out Dim B: 3/16 in = 92mm
For non-multiples mounted side-by-side, cut-out A is 46mm (1/8 in) or 96mm (1/4 in)
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4. SETUP MODE

Note: Configuration must be completed before adjusting Setup parameters. First select Setup mode from Select mode (refer to section 2). The LCD will light when in Setup mode. Press [Up] or [Down] to scroll through the parameters. Press [Lock] to return to Select mode. To exit from Setup mode, hold down [Up] and press [Lock] to return to Select mode.

Note: Parameters displayed in bold are non-configurable by instrument hardware.

Parameter | Lower Display | Upper Display | Range & Description | Default
---|---|---|---|---
Remote Setpoint Input Range | 0 | 0 | 0 to 9999
Remote Setpoint Input Value | 0 | 0 | 0 to 9999

5. AUTO-TUNING MODE

First select Auto-tuning mode from Select mode (refer to section 2). Press [Up] or [Down] to scroll through the modes, then press [Lock] to set the required value.

To exit from Auto-tuning mode, hold down [Up] and press [Lock] to return to Select mode. Even in a single-shot routine and it is self-disengaging when complete. If SP in Setup mode, the control will attempt to run at every configured scan time. Refer to the full user guide (available from your supplier) for details on controller tuning strategies.

Note: Operator Mode parameters in Display strategy 6 are read only (see in configuration mode), they can only be adjusted via Setup mode.

6. OPERATOR MODE

This mode is entered at power on, or accessed from Select mode (see section 2). Note: All Configuration and Setup mode parameters must be set as required before starting commissioning.

Press [Up] or [Down] to scroll through the parameters, then press [Lock] to return to Select mode.

Note: Operator Mode parameters in Display strategy 6 are read only (see in configuration mode), they can only be adjusted via Setup mode.

7. MESSAGES & ERROR HANDLING

These messages indicate that an error has occurred or there is a problem with the instrument's signal or output.

Do not continue with the process until the issue is resolved.

8. OPERATIONAL INPUTS

DIGITAL INPUTS

Voltage (3V TTL): Open to 24VDC = SP1. Local SP or Auto Mode; Closed=0VDC = SP2. Remote SP or Manual Mode.

Output Relay

Contact Type & Contact Rating: Single pole double throw (SPDT) 2A resistive at 240VAC/DC.

LifeTime: 500,000 operations at rated voltage/current.

Isolation: Basic isolation from universal input and SSR outputs.

ESR Driver

Drive Capability: SSR drive voltage 2.5V to 500mA.

Isolation: Not isolated from universal input or other SSR driver outputs.

DC

Resolution: 8 bits in 20mA (10 bits in 1mA typical, 10 bits in 1mA typical).

Isolation: Reinforced safety isolation from inputs and other outputs.

SERIAL COMMUNICATIONS

Standards: CE, UL, cUL, CSA.

EMI: Complies with EN55022 (Susceptibility & Emissions).

Safety: Complies with EN61010-1, UL61010-1 & CSA 22.1 No.1010.2.

Conformity: CE - Pollution Degree 2, Installation Category II. Front Panel Sealing: To IP66 (IPD behind the panel).

PHYSICAL

Mounting: 1/2" x 48 " x 48", 1/2" x 96 " x 48", 1/2" x 96 " x 96.

Depth Behind Panel: 2.5" x 2.5" x 2.5".

Weight: 0.2 kg maximum.

SUPPLEMENTARY INFORMATION FOR USER

- Completion shall not be impaired when fitted to the final installation. The equipment shall be type tested to a minimum of Basic insulation only.

- Any leakage current shall not exceed 3 mA to earth or to other outputs.

- To avoid possible hazards, accessible conductors of the final installation shall be protected by fuses or other protective devices in accordance with EN50172.

- The equipment shall be protected against accidental electrical shock by suitable means (e.g., a fused plug).

- The equipment shall be suitable for use in a position where it is accessible.

- The equipment shall be suitable for use at an ambient temperature of 0°C to 50°C.

- The equipment shall be suitable for use at a relative humidity of 15% to 85%

- The equipment shall be suitable for use in environments where the pollution degree is 2 or 3.

- The equipment shall be suitable for use in environments where the ambient air pressure is 650 to 1013 hPa.

9. REMOTE SETPOINT INPUT

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

10. SPECIFICATIONS

UNIVERSAL INPUT

Thermocouple: -200°C to 1372°C

PT100 Calibration: +0.1% of full range, ±0.01°C (±1°C for Thermocouple CJC). BS5837, BS5837 & IEC584.

DC Calibration: +0.1% of full range, ±0.01°C

Sampling Rate: 4 per second

Impedance: >100kΩ, except for DM or 5Ω (V) and 47kΩ (I)

Sensor Break

RTD, 4 to 20 mA, 2 to 10V and 1 to 5V ranges only.

Isolation: Isolated from all outputs except SSR driver.

Supplementary input must not be connected to the controller accessible output relay output or other connection to a hazardous voltage source. Supplementary insulation or input grounding would then be required.

REMOTE SETPOINT INPUT

Accuracy: ±0.25% of input range ±1LSB

Sampling Rate: 4 per second

Break Detection: 4 to 20 mA, 2 to 10V and 1 to 5V ranges only.

Control Outputs: Term of form A is the active SP.