



EUROTHERM Display/control panel fig. 36140

Digital PID processcontroller with relays output, alarm function, communication interface, and fully configurable and controllable via control panel.

Characteristics

Model: Process controller PID

Application

- In single control loop for temperature, pressure, flow or level control.

Technical Information

- Precision PID controller with auto-tuning.
- Sampling time: 250 ms [4 Hz].
- Precision: $\pm 0.25\%$ at 25°C and nominal power supply.
- Ramp soak timer and soft start function.
- Overshoot elimination.
- Recovery point (undo) function.
- High visibility three colour LED display.
- Simplified and customisable human interface.
- Wipedown front fascia.
- Panel mounting.

Read-out:

- Measured value, preset value, status.
- Resolution display: -1999 to 9999.
- 2 Local setpoints.

Input:

- Thermocouples [K, J, N, R, S, B, L, T, C].
- Pt100 3-Wire version.
- 0 - 20 mA and 4 - 20 mA [via supplied shunt resistor].
- 0 - 80 mV [0 - 10V via external adapter, not supplied].

Control outputs:

- 1 x Relay.

Outputs:

- Relay: min. 100 mA at 12V DC / 2A max. at 264V AC, Ohmic circuit [3 x SPST / 1 x SPDT].
- Triac: 0.75 A [rms] 30 to 264V [rms], Ohmic circuit [special version of controller].

Logic input:

- Open $> 600\ \Omega$ / Closed $< 300\ \Omega$ $< 13\ \text{mA}$.

Options

Optiona Interfacing

- RS-485/ EIA485 [2-wire].
- Protocol MODBUS RTU.
- 1200 - 19200 Baud.

Description	Article
Dig contr P108 36140 2R 24VAC/DC - PID on/off TK/Pt100/mV/mA 48x96 Input 1	13462597
Dig contr P108 36140 2R 24VAC/DC - PID on/off TK/Pt100/mV/mA 48x96 Input 2	13462599
Dig Contr P108 36140 2R 230VAC - PID on/off TK/Pt100/mV/mA 48x96 Input 1	13462596
Dig Contr P108 36140 2R 230VAC - PID on/off TK/Pt100/mV/mA 48x96 II RS485	13462595
Dig contr P108 36140 2R 24VAC/DC - PID on/off TK/Pt100/mV/mA 48x96 I2 RS485	13462598
Dig Contr P108 36140 2R 230VAC - PID on/off TK/Pt100/mV/mA 48x96 Input 0	13462594
Dig Contr P108 36140 4-20mA 24VAC/DC - PID TK/Pt100/mV/mA 48x96 Input 1	13462605
Dig Contr P108 36140 4-20mA 230VAC - PID TK/Pt100/mV/mA 48x96 II RS485	13462606
Dig Contr P108 36140 4-20mA 230VAC - PID TK/Pt100/mV/mA 48x96 Input 2	13226299
Dig Contr P108 36140 4-20mA 24VAC/DC - PID TK/Pt100/mV/mA 48x96 Input 0	13462603
Dig Contr P108 36140 4-20mA 24VAC/DC - PID TK/Pt100/mV/mA 48x96 II RS485	13462604

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