

ADVANCED STEP CONTROLLERS

ETRANS – PC400 Datasheet

Precise Measurement,
Ultimate Control

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ADVANCED STEP CONTROLLERS

MODEL Etrans- PC400



Description

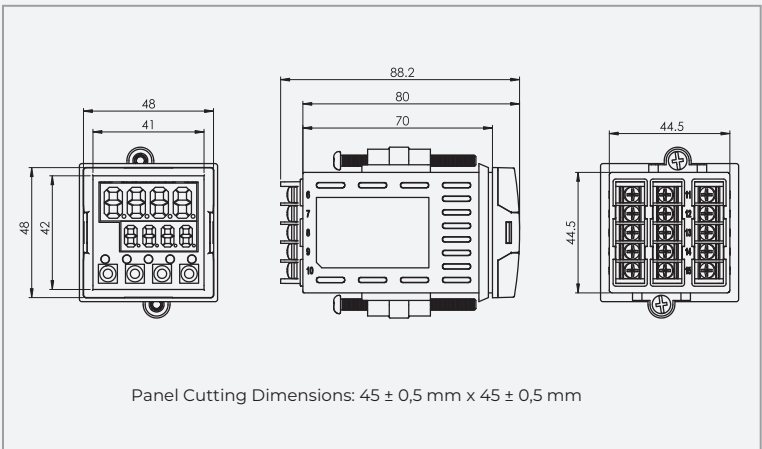
PC400 model devices are 48 x 48 mm industrial controllers designed for measuring and controlling various process variables such as temperature, pressure, speed, level, humidity, current, voltage, resistance, and other physical units. They feature a fully modular design where each module can be independently configured for ON/OFF or PID control



General Features

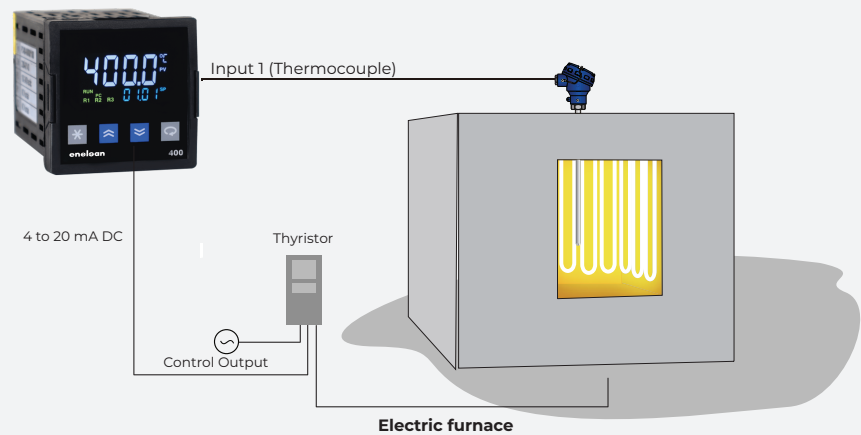
- Display: LCD display with 2 lines of 4-digit numeric indicators.
- Indicators: LED indicators for relays.
- Step Control: 100 programs with a total of 800 steps.
- Programming: Ability to program relay states within steps.
- Communication: RS485 unit with standard MODBUS RTU protocol.
- Control Types: ON/OFF, P, PI, PD, PID, and Floating Valve
- Control (without feedback).
- Special Functions: Auto-Tuning, Self-Tune, Bumpless Transfer, and Remote Set Point.
- Sampling: 100ms sampling and control cycle.

Device Dimensions



Applications

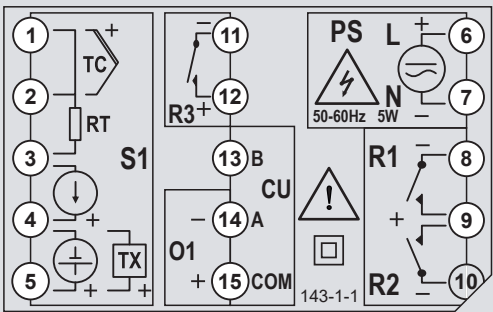
Used in Food, Plastic, Iron & Steel, Chemical, Metallurgy, Cement, Ceramic, Petro-Chemical, Refineries, Glass, and other industrial sectors



Technical Specifications

Supply Voltage (PS)	100-240 Vac/dc +10% -15% 24 Vac/dc +10% -20%
Power Consumption	4W, 6VA
Universal Sensor Input (S1)	Thermocouple = B,E,J,K,L,N,R,S,T,U Two-Wire Transmitter = 4-20mA Resistance Thermometer = Pt-100 Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V
Transmitter Supply (TX)	24Vdc (I _{sc} = 30mA)
Analog Input Impedances	Thermocouple, mV = 10MΩ Current = 10Ω Voltage = 1MΩ
Analog Output (O1)	Current : 0/4-20mA (R _L ≥500Ω) Voltage = 0/2-10V (R _L ≥1MΩ)
Relay Outputs (R1, R2, R3)	Contact (R1,R2,R3) : 250VAC 10A Logic Output = 24Vdc 20mA
Contact Life	No Load = 10,000,000 Switching Operations Under 250V 10A Resistive Load : 1,000,000 Switching Operations
Other	100 Years, 100,000 Refresh Cycles Accuracy: ± 0.2% Sampling time: 100 ms Operating temperature: -10...+55°C Storage temperature: -20...+65°C
Protection class:	Front panel IP54 / Rear panel IP20
Mechanical Specifications	Width: 48 mm Height: 48 mm Depth: 78.2 mm Panel cut-out: 45 +/- 0.5 mm x 45 +/- 0.5 mm Weight: 154 g

Electrical Wiring Diagram



Module	Description
S1	Universal sensor input module.
O1	Analog output module
R1,R2,R3	Relay output modules
CU	RS485 communication module
PS	Supply voltage input.

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