

# ADVANCED CONTROL DEVICES

## ETRANS – AC400 Datasheet

Precise Measurement,  
Ultimate Control

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## ADVANCED CONTROL DEVICES

### MODEL Etrans- AC400



### Description

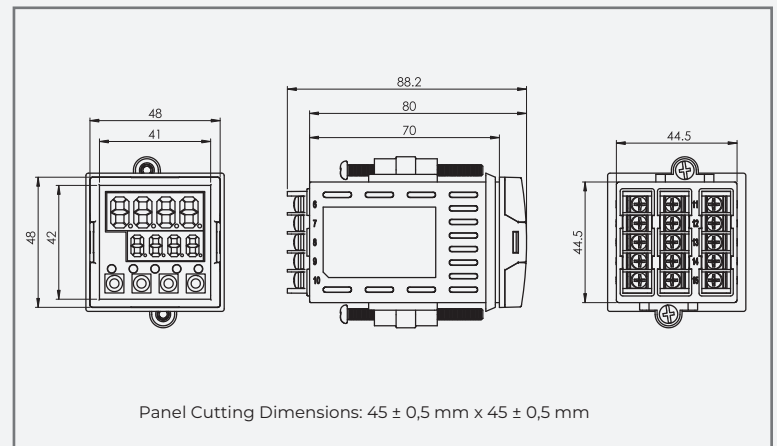
AC400 Model devices are designed in 48x48 mm dimensions for measuring many industrial process variables (temperature, pressure, speed, level, humidity, current, voltage, resistance, and other physical units) and for ON/OFF and PID control purposes. They are completely modular devices, and each module can be configured independently. They are used in Food, Plastic, Iron & Steel, Chemical, Metallurgy, Cement, Ceramic, Petro-Chemical, Refineries, Glass, and other industrial branches. They are ergonomic devices designed with a focus on compliance with international standards, reliability, and ease of use.



### General Features

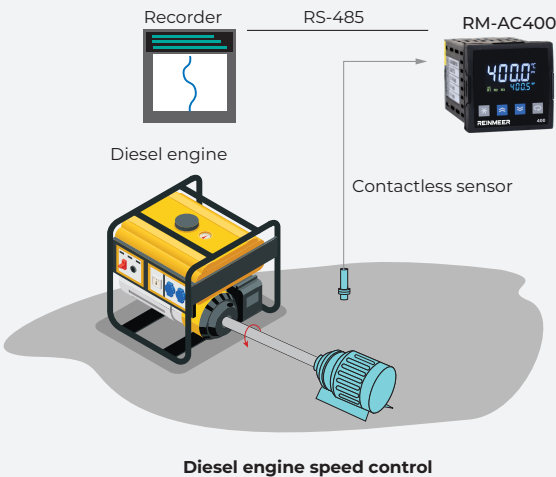
- 2 x 4-Digit Numeric Displays on LCD
  - LED Indicators for Relays
  - 1 Transmitter Supply Output (24VDC)
  - 1 Universal Sensor Input (TC, RT, mA, mV, V)
  - 1 Analog Output (0/4-20mA, 0/2-10V)
  - 1 RS485 Communication Unit
  - 3 Relay or Logic Outputs (24VDC)
  - 100-240V AC/DC Universal or 24V AC/DC Supply
  - Isolation Between Input/Output Modules
  - Feedback-free Proportional Valve Control (Floating Control)
  - PID Heating/Cooling
  - Auto-Tuning (automatic adjustment of PID parameters)
  - Self-Tune Feature
- 
- Automatic/Manual Operating Modes
  - Bumpless Transfer Feature
  - Sensor Failure Detection
  - Ramp Function
  - Retransmission (For Process and Set Value)
  - 15 Different Relay Functions
  - ON/OFF, P, PI, PD, PID Control
  - Alarm Postponement Function
  - Linear and Time-Proportional Control Output, 100ms
  - Sampling and Control Cycle
  - Standard MODBUS RTU Communication Protocol Configuration via Computer

### Device Dimensions



### Applications

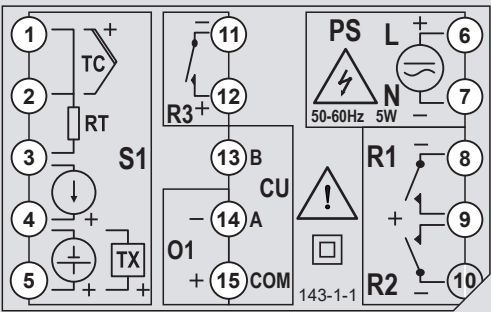
Food, Plastic, Iron & Steel, Chemical, Metallurgy, Cement, Ceramic, Petrochemical, Refineries, Glass, and other industrial sectors.



Technical Specifications

|                             |                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply Voltage (PS)         | 100-240 Vac/dc +10% -15%<br>24 Vac/dc +10% -20%                                                                                                               |
| Power Consumption           | 4W, 6VA                                                                                                                                                       |
| Universal Sensor Input (S1) | Thermocouple: B, E, J, K, L, N, R, S, T, U<br>Two-wire transmitter: 4-20mA<br>Resistance thermometer: Pt-100<br>Current: 0/4-20mA<br>Voltage: 0-50mV, 0/2-10V |
| Transmitter Supply (TX)     | 24Vdc (Isc = 30mA)                                                                                                                                            |
| Analog Input Impedances     | Thermocouple, mV: 10MΩ<br>Current: 10Ω<br>Voltage: 1MΩ                                                                                                        |
| Analog Outputs (O1, O2)     | Current: 0/4-20mA (RL ≥ 500Ω)<br>Voltage: 0/2-10V (RL ≥ 1MΩ)                                                                                                  |
| Relay Outputs (R1, R2, R3)  | Contact (R1, R2, R3): 250VAC 10A<br>Logic Output = 24Vdc 20mA                                                                                                 |
| Contact Life                | No load: 10,000,000 operations<br>250V 10A resistive load: 1,000,000 operations                                                                               |
| Other                       | Memory: 100 years / 100,000 rewrites<br>Accuracy: ± 0.2%<br>Sampling time: 100 ms<br>Operating temperature: -10...+55°C<br>Storage temperature: -20...+65°C   |
| Protection class:           | Front panel IP54 / Rear panel IP20                                                                                                                            |
| Mechanical Specifications   | Width: 48 mm<br>Height: 48 mm<br>Depth: 78.2 mm<br>Weight: 154 g                                                                                              |
| Panel Cut-out Dimensions    | 45 +/- 0.5 mm x 45 +/- 0.5 mm                                                                                                                                 |

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.          |

# Contact us

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