

Application


The AC 021 Universal Process Controller breaks the versatility barrier joining in a single instrument the great majority of the characteristics required by the various industrial processes.

With daring and consistent software and a truly universal circuit, it is the only worldwide 1/16 DIN instrument that allows frontal keyboard setup of the signal inputs and control outputs with any change of hardware.

From the simplest applications such as high accuracy thermostat to most complex distributed systems of network process control with CLPs or interconnected by supervisors, the AC 021 is the best option as your ally in industrial process automation.

Main Advantages

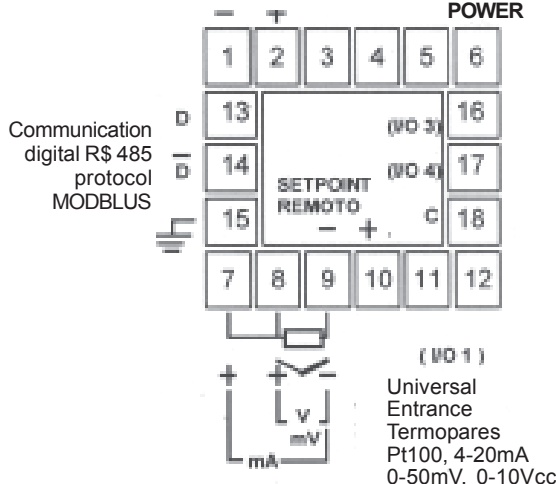
- Universal multi-sensor input without any change of hardware or recalibration.
- Available control outputs: 3A/250Vac relay, linear 4-20mA and logic pulse, all available on the standard model.
- Alarms: 2-relay in the basic version. Up to 2 alarms with timers from 0 to 6500s, ideal for incremental/decrement servopositioning.
- Alarms functions: minimum, maximum, differential, minimum differential, maximum differential, open sensor, event and non-operational.
- One digital input on the basic version.
- Up to 3 digital inputs with 5 programmable functions.
- PV or Setpoint retransmission in 4 to 20mA.
- "Bumpless" Automatic/Manual Function.
- Open sensor protection in any condition.
- Remote Set Point Input (4 to 20 mA).
- Programmable soft start (0 to 9999 seconds)
- Ramps and plateaus: 4 5-segment programs and possibility of linking the programs among themselves, resulting in a program of up to 20 segments.



Electric connections

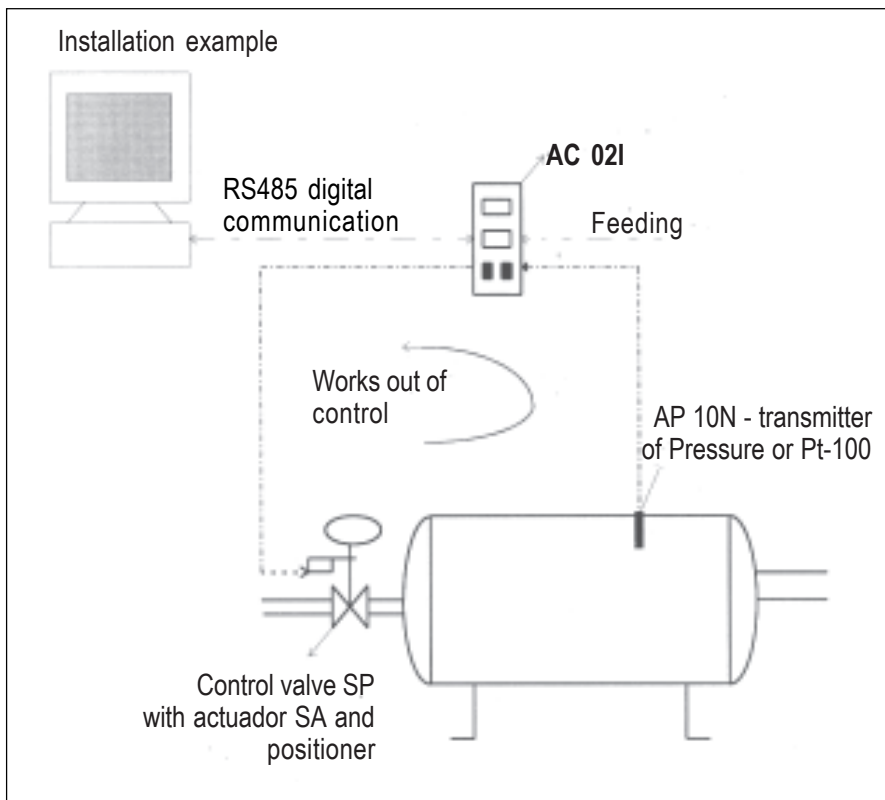
(VO 5)
Lineal 4-20mA (VO 2)
pulse Logical

85-2264V (Standard)
22-60V (Opcionis)
12-30V (Opcionals)
CA/CC
POWER



- RS-485 serial communication, ASCII MODBUS protocol and slave RTUs, 19200 bps.
- Keypad password protection.
- Allows a network of up to 247 slave controllers.
- Impact-resistant ABS cabinet with frontal circuit extraction without undoing the connections.
- PID parameters auto-sync.
- 18-jack back panel, 63-mm wide.
- Automatic identification of installed optional equipment. Consistent menu adapts to the optional equipment.-Unique Windows-compatible parameter setup software.
- Polycarbonate keypad with tactile feedback.

Model	
Aproximate weight	150 g
Sampling	5 measurements per second
Control output update	each 200ms
Power	85 to 264 Vac, 50 / 60 Hz
Maximum consumption	
Digital Display	upper red display for process variable (PV) lower green display for set value (SV)
Input	Thermocouples J, K, T, N, R, S Thermo-resistance Pt100 Current/voltage 4-20mA, 0-50mV and 0-10Vdc
Ouput	Control 3A/250Vac relay, 4-20mA linear and logic pulse
Ouput	Control 3A/250Vac relay, 4-20mA linear and logic pulse
	Alarm
Operational environment	0 to 55°C, 20 to 95% relative humidity Dimensions
Dimensions	
Cutoff for panel attachment	45.5 x 45.5 mm



Standard specification

AC 02I Microprocessor-based Process Controller.

The basic model includes universal input and SPST relay control output, a 4-20mA output and logic pulse in addition to two SPST alarm relays, a digital input and a 24-Vdc output to excite the transmitters. RS485 digital communication.

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