



ATR171

Controller multi-setpoint / Dual input

Controller 72x72mm, Single/Dual control loop. A limited number of ordering codes still guaranteeing high flexibility of application through high configurability at software level.

One or two analogue inputs, selectable for a wide range of sensors, with the possibility to relate them to mathematical functions. Outputs programmable as command/alarm/event or analogue retransmission. Extended power supply range 24...230 Volt ac/dc with galvanic isolation (also between inputs/outputs).

User-friendly operation, programming tools for quick set-up (MEMORY-CARD, programming and monitoring software LABSOFTVIEW).

Ordering codes

ATR171-11ABC	1 Analogue Input + 1 Relay 8 A + 1 SSR 12Vdc - Supp. 24...230Vac/Vdc
ATR171-12ABC	1 Analogue Input + 2 Relays 8 A + 1 SSR 12Vdc - Supp. 24...230Vac/Vdc
ATR171-14ABC	1 Analogue Input + 3 Relays 8 A + 1 Relay 5 A(30V) - Supp. 24...230Vac/Vdc
ATR171-23ABC-T	2 Analogue Inputs + 3 Relays 8 A + 1 SSR / 0...10Volt / 4...20mA + RS485 - Supp. 24...230Vac/Vdc

Main features

Box	72x72 (front panel) x 99 mm
Power supply	24...230Vac/dc $\pm 15\%$ 50/60 Hz
Consumption	5,5 VA
Display	4 digits 0,5" green + 4 digits 0,3" red + 6 signaling leds
Operating conditions	Temperature 0-45 °C, 35..95 RH%
Material	

Box: Noryl UL94V1 self-extinguishing; Front panel: Silicon rubber

V0

Weight	Approx. 250 g
Sealing	Front panel IP54 (with gasket) , Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes

Inputs

1 Configurable	Selection TC, K, J, S, R, PT100,PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), 0/4..20 mA, 0..10 V, 0...40mV, Potentiometer 1...6/160 Kohm.
1 Configurable	Selection TC, K, J, S, R, PT100,PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K) - (code -23ABC-T)
Sampling time	4,1 ms (Frequency 242 Hz)
1 Digital input	1...4 setpoints selection, Hold, Run (codes -11/12/14ABC)

Outputs

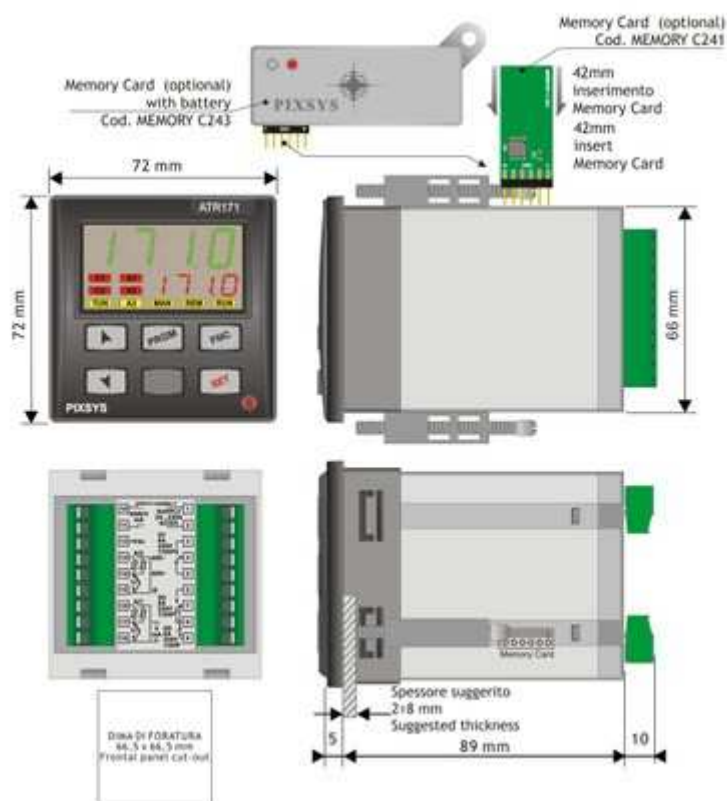
1...3 Relays	1...3 Relays 8A - 250 Vac resistive charge + 1 Relay 5A - 250 Vac resistive charge (code -14ABC)
1 Analogue	Selection SSR 12 Vdc - 30 mA / 0...10Volt / 4...20mA as command or retransmission setpoint-process (code -23ABC-T)
Serial communication	RS485 Modbus RTU - Slave (code -23ABC-T)

Software features

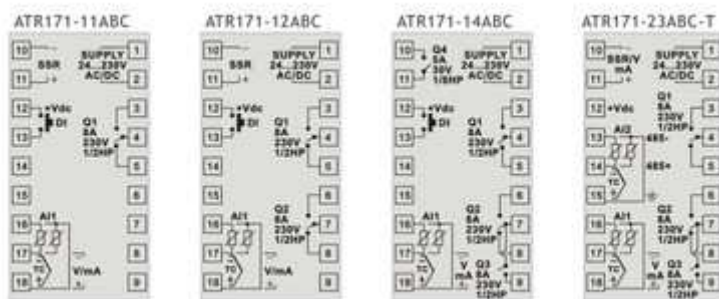
Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned. Automatic / Manual regulation
Tuning	Manual / Automatic
Data protection	Lock of command / alarm setpoint - Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset and activation delay. Dead band function
Soft-Start	Rising gradient expressed as Degrees / Hour
Double P.I.D.	Heating / Cooling P.I.D.

Programmer function	3 steps pre-programmed cycle with Start / Stop
Timer function	Controller function + decremental Timer
Remote setpoint	Command setpoint corresponding to AI1 4...20 mA / 0...10 V (code -23ABC-T)
Double input mode	AI1 and AI2 input correlation as mean, difference or addition of process (only for temperature sensors TC - RTD on code -23ABC-T)

Size and installation



Wiring plan



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