

ATR421

Programmer 48 x 96 mm Programmable controller 15 cycles / 45 steps



Programmer 48x96mm (1/8 DIN), single control loop. Allows the programming of 15 cycles/programs that can provide up to 45 steps/segments, all of which can be configured by the user as raise/maintain/lower. Programming mode of the work cycle that is intuitive and simple to use even for inexpert operators.

Step end wait software functions (in case of a delay of the process on the programmed setpoint value) and Cycle Recovery mode (after a power cut-off) are the main features of this programmer that has been specifically designed for the automation of industrial kilns, climatic chambers, dryers and the management of thermal processes in general that require the programming of cycles/curves with control of the process variable in relation to time.

Universal input and outputs that can be set as control, alarm/auxiliary analogue retransmission and/or serial RS485. All options can be configured from the keypad without selecting external Jumpers. Useful power supply ranges from 24 to 230V AC/DC with galvanic isolation from the power supply and between inputs and outputs.

MEMORY-CARD or parameter setting software help the installer configure the device quickly and easily and LABSOFTVIEW records trends.

Main features

Box 48x96 (front panel) x 123 mm

Power supply 24...230Vac/dc ±15% 50/60 Hz (selection 24 - 110...230Vac with jumper)

Consumption 5,5 VA, 4W

Display 4 digits 0,4" green + 4 digits 0,3" red

Operating conditions Temperature 0-45 °C, humidity 35...95% RH (non condensing)

Material Box: Noryl UL94V1 self-extinguishing; Front panel: Silicon rubber V0

Weight Approx. 350 g

Sealing IP65 (Front panel), IP20 (Box and Terminal blocks)

Quick set-up options Memory Card with / without battery, software LABSOFTVIEW

Inputs

1 Analog Selection TC, K, J, S, R, PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K),

0/4...20 mA, 0...10 V

1 Digital
 1 ... 9 cycle selection, Hold, Run, "Open door" lock (code -14ABC)
 1 Potentiometer
 Position signal by potentiometer for servo-valves / motorized-valves



Outputs

2...4 Relays Relay 8 A - 250 Vac resistive charge

1 SSR 24 Vdc - 25 mA max

1 Analog Selection SSR 12Vdc - 4...20 mA or 0...10 Vdc for command or retransmission PV/SPV

(code -12ABC-T)

Serial communication RS485 Modbus RTU - Slave (code -12ABC-T)

Software feature

Control algorithms ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time-proportioned

Tuning manual or automatic

Data protection Lock of control / alarm setpoint, Access to parameters by password

Alarm modes Absolute / Threshold, band, High / Low deviation, timed auxiliary programmable for

single steps

Gas mode Open / Close logic for motorize valves, management of burners and fan, GID

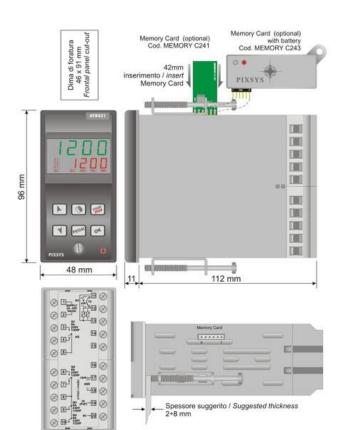
selection (management of burners during falling steps)

Waiting function Special function to compensate differences SPV / PV in case of overloaded system

Cycle recovery Resume the cycle after unexpected power failure

Setpoint controller mode Regulation on a fixed setpoint (function might be enabled from general menu or

during a cycle in progress)



Ordering codes

ATR421-14ABC

1 Analog Input + 1 Digital Input + 4 Relays + 1 Digital PNP, supply 24...230Vac/dc

ATR421-12ABC-T

1 Analog Input + 2 Relays + 1 Digital PNP + 1 Analog 0/4...20mA / 0...10V + RS485, supply 24...230Vac/dc

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