



## ATR621

### Process controller/Programmer 15 cycles/ 45 steps

Programmer 72x72mm, single loop. It enables the programming of 15 cycles/programs which might include anything up to 45 steps/segments, all free selectable by the operator as rising/dwell/cooling steps. Distinctive feature is the extremely user-friendly programming, easy to handle even for the unskilled operator.

This programmer is specifically conceived for the automation of industrial kilns/environmental chambers/dryers and for the monitoring of thermal processes requiring the programming of cycles/profiles with control of process variables versus time. Special functions like Waiting (useful whenever the process has a delay on the programmed setpoint) and Cycle Recovery (after unexpected power failures) are included.

Two analogue inputs, relay/SSR outputs selectable as command/ alarm/ auxiliary, serial communication RS485-ModbusRTU. All options are configurable by keyboard. MEMORY CARDS for quick set up and cycle programming.

## Ordering codes

ATR621-12ABC	1 Analogue input + 2 Relays 8 A + 1 SSR 12Vdc + 1 Digital input
ATR621-13ABC-T	1 Analogue input + 3 Relays 8 A + 1 Output V/mA/SSR + RS485
ATR621-14ABC	1 Analogue input + 3 Relays 8 A + 1 Relay 5A (30V) + 1 Digital input

## Main features

Box	72x72 (front panel) x 99 mm
Power supply	24...230Vac/dc $\pm 15\%$ 50/60 Hz
Consumption	5,5 VA
Display	Display 4 digit 0,5" green + Display 4 digit 0,3" red + 9 Leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 uR%
Material	Box: Noryl UL94V1 self-extinguishing; Front panel: Silicon rubber V0
Weight	Approx. 250 g

Sealing	Front panel IP54 (with gasket) , Box IP30, Terminal blocs IP20
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Quick set-up options	Memory Card whit/without battery, software LABSOFTVIEW
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## Inputs

1 configurable	Selection TC, K, J, S, R, N, E, PT100, 0/4...20 mA, 0...10 V
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1 digital input	1...5 cycle selection, Hold, Run, "open door" lock, Emergency
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## Outputs

Relays	2 / 3 Relays 8 A - 250 Vac resistive charges
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Relays	1 Relay 5 A - 30 Vac
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1 Linear	0/4...20mA or 0...10Volt
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1 SSR	12 Vdc - 30 mA max
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Serial communication	RS485 Modbus RTU - Master/Slave
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## Software features

Control Algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
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Autotune	Manual/Automatic
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Data protection	Access to parameters by password
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Alarm mode	Absolute/Threshold, band, High/Low deviation, timed auxiliary programmable for single steps.
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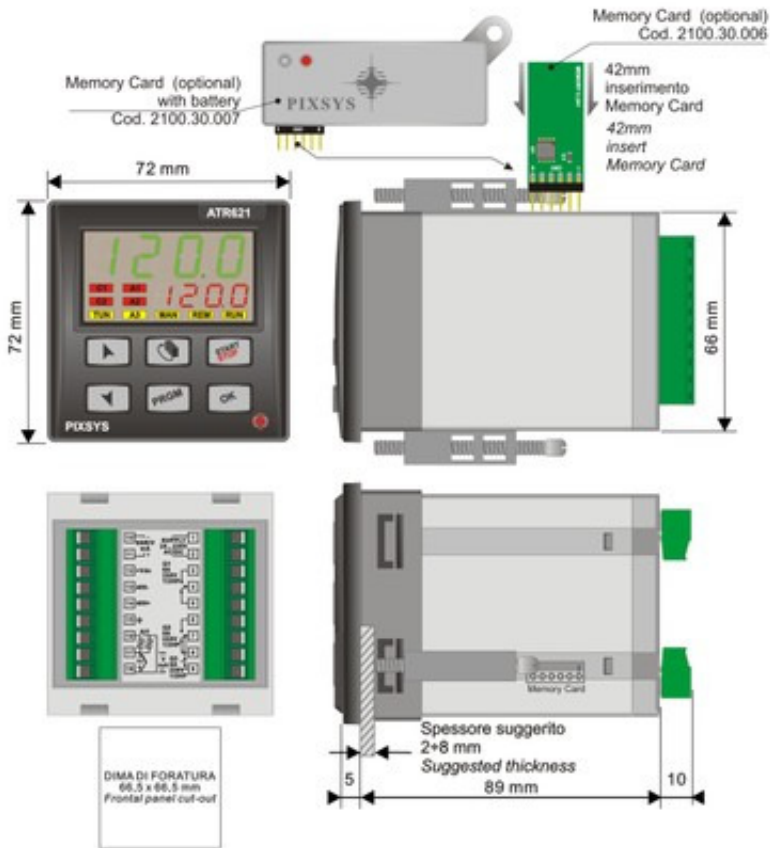
PV/SPV retransmission	Analogue in Volt/mA or RS485 serial
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Waiting function	Special function to compensate differences SPV / PV in case of overloaded system
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Cycle recovery function	Resume the cycle in case of unexpected power failure
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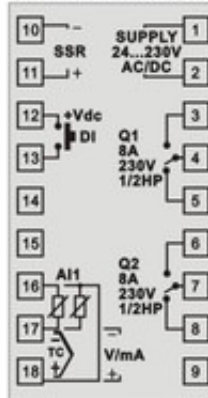
Setpoint controller mode	Regulation on a fixed setpoint (function might be enabled from general menu or during a cycle in progress)
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Delayed start	Cycle start delayed by decremental timer
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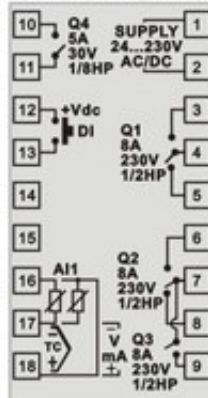


## Wiring plan

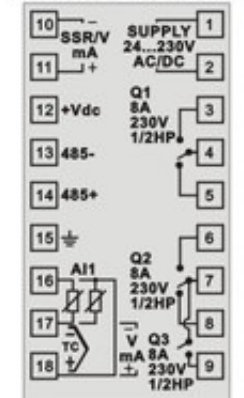
ATR621-12ABC



ATR621-14ABC



ATR621-13ABC-T



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