



» ATR620 Process controller

» Ordering code

Ceramic kilns
Glass kilns
Heat treatment plants
Industrial dryers



» Description

Multifunction programmer/ step controller size 72x72mm. ATR620 has been specifically developed as control system for glass, ceramics and heat treatments kilns and furnaces.

Double display enables visualization of setpoint and process value, selected cycle, temperature at step end, output percentage, time elapsed from start, step in progress, power consumption/KWh. Fast advancement on cycle and manual control of output percentage to assure precise monitoring of the plant.

If it is necessary to monitor two zones (example: kilns with extended chamber), the "double loop" function is very useful to compare the reading of two sensors and keep uniform temperature inside the chamber.

For each of the 15 programmable cycles, it is possible to program 20 steps/segments.

Special software functions provide high accuracy of firing profile for sensitive materials:

-Waiting function (useful when the plan cannot reach setpoint within the programmed time)

-Recovery function (with automatic or selectable gradient) in case of power failure.

Additional features include: 2 programmable digital inputs for Start/Stop/Alarm; operating as simple controller with programmable setpoint; starting setpoint; relay/SSR outputs for the management of heating groups, burners or auxiliary alarms; delayed start; Master/Slave mode for serial line (RS485+MODBUS-RTU protocol, up to 32 control loops).

» Technical data

SIZE: 72x72(frontal)x105mm

POWER SUPPLY: 24/115/230Vac $\pm 10\%$, 50/60Hz selectable by internal dip-switch

POWER CONSUMPTION: 4W

DISPLAY: 4 green digits (main), 4 red digits (second display), 4 red LEDs

OPERATING CONDITIONS: 0-45°C, 35..95rH%

INPUTS:

2 inputs selectable for TC J, K, S, R, PT100, NI100, 0..1V, 0..10V, 0..20mA, 4..20mA

2 programmable digital inputs (if serial communication is not used)

OUTPUTS:

2 relays 8A resistive + 1 SSR 12V-30mA (version ATR620-21ABC)

3 relays 8A resistive (version ATR620-22ABC)

CONTROL MODE: ON/OFF, PID- Autotuning, Double loop

ACCURACY: : 0.5% ± 1 digit for TC/RTD, 0.2% ± 1 digit for V/mA

SAMPLING TIME: 250ms

SEALING: IP54 Frontal, IP30 Box, IP20 Terminal blocks

CONFIGURATION: parameters protected by password

Memory card for quick configuration or software upgrade

SPECIAL FUNCTIONS:

15 programmable cycles – 20 steps each

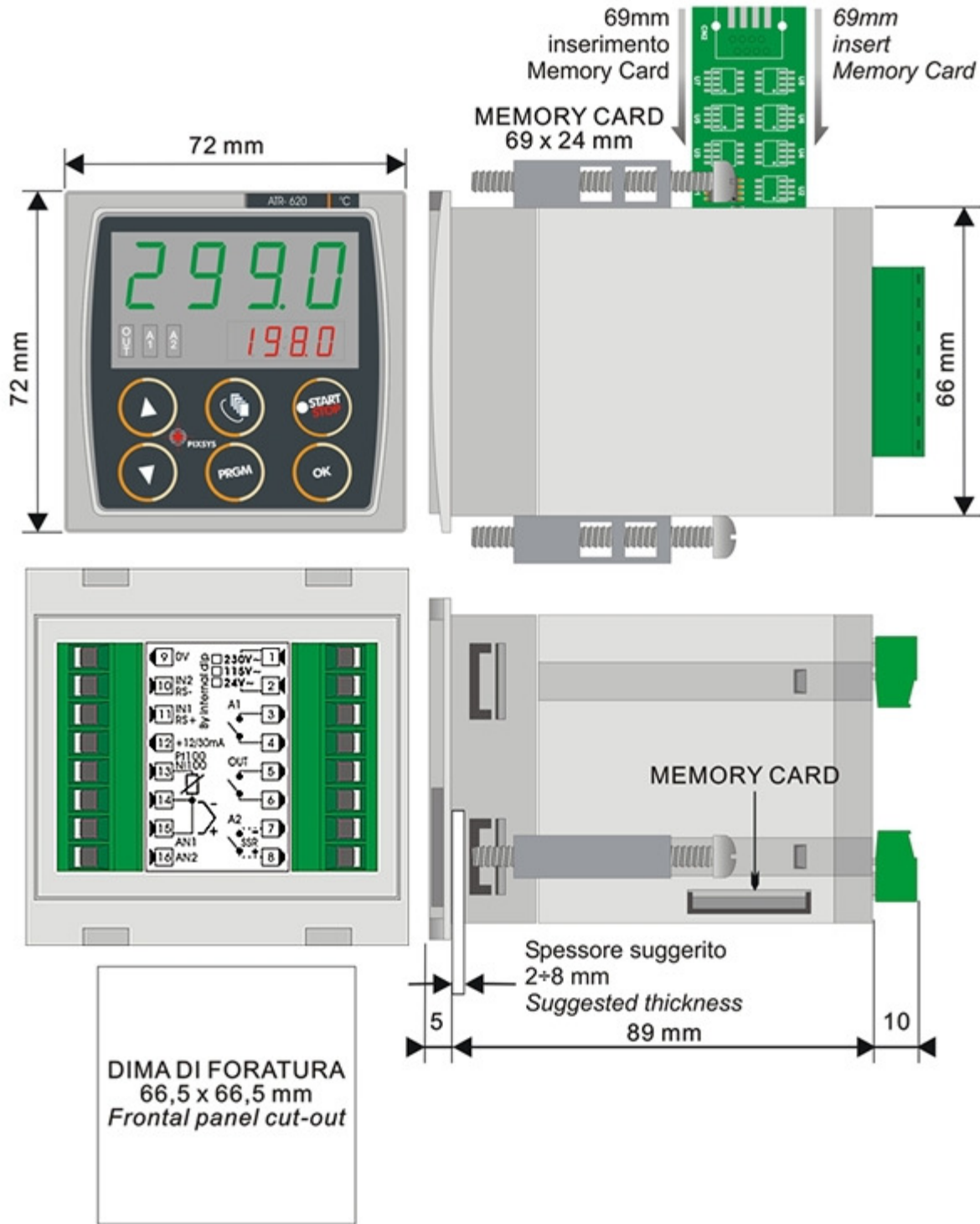
Waiting function

Recovery of interrupted cycle

Serial communication RS485 / Modbus-RTU

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» Installation



MODEL	INPUTS	OUTPUTS	POWER SUPPLY
ATR620-21ABC	Configurabile / Selectable	Relays + SSR	24 / 115 / 230 Vac +/-10% 50/60 Hz
ATR620-22ABC			

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