

ATR313

Graphic terminal / Process controller 20 cycles/30 steps



LCD 251x146mm, Multi-loop graphic terminal Integrated by a variable number of Pixsys PL300 Acquisition/Actuation Modules, it constitutes a complete and flexible control system for managing thermal processes in industrial kilns, dryers and environmental control chambers.

Up to 5 x PL300 modules allow control of up to 20 processes, which can be linked to 2 setpoints that can be configured for temperature/pressure/humidity/oxygen percentage levels. Specific software features for gas ovens are also available, including motorized valve management. Double hot/cold PID mode to control environmental control chambers. Wait (system inertia compensation) and Cycle Recovery (following a power cut off) functions. Analogue retransmission of process/setpoint values. Graphic display of cycle trends and internal recorder to monitor up to 6 traces. Events list with date/time.

Serial communication RS485/RS232/RS422, MODBUS protocol Optional software app DataLogger313 to display cycle trends or for the download/upload of parameters and cycle data on/from Terminal and firmware updates (possible also by Memory Card) on a PC.

Main features

Box	251x146 (front panel) x 66 mm
Power supply	12...24Vac/Vdc \pm 10% 50/60 Hz
Consumption	10W
Display	Graphic LCD 240x128, monochrome, Reverse option, programmable contrast and backlighting operation
Operating conditions	Temperature 0-45 °C, Humidity 35...95% RH (non condensing)
Material	Box: chromed steel; front frame: ABS; Keyboard: polycarbonate
Weight	Approx. 1350 g
Sealing	IP65 (Front panel), IP20 (Box and Terminal blocks)
Memory Card	Upload/download parameters and cycles, Firmware upgrade

Inputs

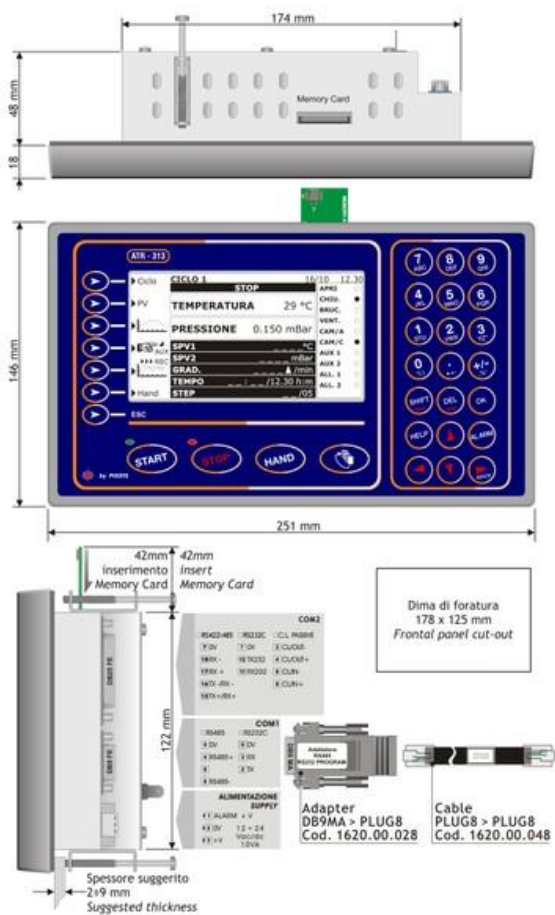
Analog	See PL300 (www.pixsys.net/en/products/plcs-io-modules/pl300)
Digital	See PL300 (www.pixsys.net/en/products/plcs-io-modules/pl300)

Outputs

Analog	See PL300 (www.pixsys.net/en/products/plcs-io-modules/pl300)
Digital	See PL300 (www.pixsys.net/en/products/plcs-io-modules/pl300)
Serial communication	RS485 Modbus RTU - Master, RS232, RS422

Software feature

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
Data protection	Access to parameter by password, special password to define operator access levels
Alarm options	Absolute / Threshold, band, High / Low deviation, auxiliary functions programmable for each step, programmable type of action on the running cycle, text of alarm messages may be entered by keyboard, alarm source selectable by the user
Waiting function	Special function to compensate differences SPV / PV in case of overloaded system
Cycle recovery function	Resume the cycle after unexpected power failure
Functions for gas-fired kilns	Management of modulating valves by additional PL250
Visualization options	Selection of visualized process values, Selection of menus related to function keys, selectable language, optional customer logo loaded at starting



Ordering codes

ATR313-1AD

Graphic terminal, LCD display, alphanumeric keyboard

Acquisition modules

See PL300