16 CHANNEL HOT RUNNER CONTROLLER HR16

Technical specifications

HR16 is a 16 channel microprocessor thermoregulator, designed for managing heaters of matrix nozzles and channels via hot runner system. It is particularly developed to obtain maximal flexibility and reliability of the system, as well as for easy and a convenient customer use. HR16 is also opened to connection to another control system. The device is lightweight, convenient and compact.

Dimensions (w, h, d)	**492mm x 168mm x 392mm**
Load Voltage	**230 VAC rated**
Output Switching Element	**Triac with zero cross detection**
Output Current for different types of output modules	**16 A max**
Control Law	**PID**
Alarms	**wrong parameters (in the memory), temperature sensor failure, non heating or overheating of a zone, exceeding of maximum temperature, temperature out of the set alarm and failure limits, overheating of output modules of the device**
Protections	**overheating of output modules, short circuit in heaters, overheating of zones (at short circuit in control element), against change of key parameters by a password**
HMI	**Digital and navigation keyboard and 4-line 20-character LCD for setting the parameters bright 3-digit 7-segment display for each zone: setpoint, current temperature, percent of output power, difference between set and current temperature independent buttons for simultaneous start, stop, increase or decrease the temperature of all zones.**
External digital input	**adjustable as ‘start/stop’, ‘decrease’ or ‘increase’**
External relay output	**adjustable as: ‘switched on’, ‘switched off’, ‘alarm’ or ‘temperatures OK’**
Communication	**RS485 or RS232**
Extras	**Soft start of heating, simultaneously increasing the temperature of all zones after the start of heating, manual or automatic coupling output of one zone to another on temperature sensor failure, memorizing of 10 settings of all parameters (recipes), built-in settings of PID regulator for two types of zones- "hot plate" and "nozzle"**