

Hot runner controllers

JETmaster TP series



Properties

- Micro-process controller with PID algorithm and automatic optimisation
- For 24 zones or more in steps of 8, can be expanded however desired
- Each zone 230 V / 16 A
- Control via industrial PC with 15" touch panel
- Access authorisation at 3 code levels for user, setter and administrator and an additional master key on USB stick
- Functional in any desired language
- Automatic mould-test and diagnostic tool with log function
- Automatic starting control for drying out humidity
- Temperature monitoring with alarm message
- Display of sensor breakage and polarity reversal with alarm message
- Automatic and manual switching to manual mode in case of sensor error
- Any number of zones can be switched in parallel (controlled by the command zone)
- Temperature reduction can be controlled manually and externally by the machine
- Boost function can be controlled manually and externally by the machine using safety timer (temperature increase against cold plug)
- Heating current display without heating
- Heating current monitoring with alarm message
- Display of mould connection power
- Power consumption display under process conditions
- Floating alarm contact as NC or NO
- Synchronisation function for uniform heating of all zones
- Group management for multicavity, stack, and multicomponent moulds
- Early detection of leaks in the mould
- Safety shut-down by main contactor when a triac short circuit occurs
- Mould data memory for more than 500 moulds
- Mould data can be transferred to all devices of the TP series without restart
- Temperature recorder for all active zones with export function
- Up to 8 images can be displayed per mould
- PC-Software for mould creation and evaluation and printing function on the office PC
- Interfaces: 1 external USB, 1 Ethernet, additional interfaces optionally for control by the machine screen
- Extremely compact, simplest operation, fanless, maintenance-free
- Individual mould connection without extra charge
- Unlimited free update service via Internet

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Technical data

Housing:	Steel/Aluminum, Paint RAL 5010 gentian blue, special colour on request
Dimensions / weight:	According to „Equipment designs“ table
Temperature controller:	Microprocessor controlled multi-loop controller with adaptive computation of the control parameters
Operation / Visualisation:	Control via industrial PC with 15" touch panel
Power outputs:	Max. 230 VAC / 16 A = 3680 W per zone, interference-free switching algorithm using 25 A triac's, secured by super-fast-acting (FF) safety fuses 16 A, 6.3 x 32 mm
Alarm output:	Potential-free alarm contact, max. load 250 VAC / 2 A (can be inverted)
Safety shutdown:	Load shedding in the case of broken-down triac (short circuit)
Interfaces:	1xUSB-external, 1xEthernet, optional RS232, RS485, TTY
Sensor input:	Thermocouple Fe/CuNi, switchable to Ni/CrNi with internal comparative measuring point
Temperature range:	0 - 500 °C, can be converted to 32 - 932 °F
Calibration accuracy:	≤ 0.25 %
Reduction:	The setback can be switched both manually and externally via the 24 VDC control circuit
Boost:	The boost setpoint can be switched both manually and externally via the 24 VDC control circuit
Mould connection:	Customer specific
Power supply:	400 VAC +10...-10 %, 50 Hz, 3P / N / PE, other voltages on request
Control fuse:	Fusible cut-out MT 6,3 A, 5 x 20 mm
Power supply:	Customer specific
Ambient temperature:	Operation 0...+50 °C, Storage -30...+70 °C
Climatic application class:	According to DIN 40 040, relative humidity ≤ 75 % in the annual average, no condensation
Protection type:	IP20
Protection class:	I
Safety:	Produced in accordance with IEC 348 (DIN VDE 0411)
CE marking:	EMC in accordance with 89 / 336 / EEC, EN 50081-2, EN 50082 – 2

Equipment designs

Model	Item no.:	Dimensions (mm) W x H x D
<i>JETmaster TP 24 to 96</i>	1610-xxxx-96*	480 x 1360 x 470
<i>JETmaster TP 104 to 144</i>	1610-xxxx-144*	480 x 1650 x 470
<i>JETmaster TP 152 to 192</i>	1610-xxxx-192*	480 x 1595 x 520
<i>JETmaster TP 200 to 240</i>	1610-xxxx-240*	**

xxxx: Will be replaced by a customized version number when the order is placed.

* according to the no. of zones

** in a special housing with castors



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