

Hot Runner Controller Series *fitron*



General Functions

- Microprocessor-based multi-channel controllers
- For 4 up to 32 zones
- Each zone rated for 230V/16A
- Combination and stacking of multiple units as re-quired
- Extremely compact, easily operated, maintenance-free
- Digital displays for setpoint and actual values
- Adaptive automatic control line tuning
- Automatic power-up
- Temperature reduction*
- Boost* (temperature increase against cold slugs)
- Alarm display and messages for broken and reversed thermocouples
- Temperature control with alarms
- Automatic manual percent power control mode upon thermocouple failure
- Parallel zone control
- Synchronisation (balanced heating of all zones)
- Heating current display without heating
- Heating current control with alarms
- Alarm output through neutral contact
- Emergency-off per main breaker
- No configuration required
- Repairs possible without expert knowledge
- Data input locking per key switch**
- Storage capacity for 40 mould settings**
- Serial interface for free configuration**
- PC program for operation and set-up management**

* optionally controlled per injection moulding machine

** optional

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Technical Specifications

Housing:	Aluminium, Gentian Blue, Colour Code RAL 5010
Dimensions / Weight:	See "Unit Sizes" table
Temperature Controllers:	Microprocessor-based multi-channel controllers with adaptive parameter calculation
Serial Interface optional:	RS 232 or RS 485 or TTY
Thermocouple Input:	Thermocouple Fe/CuNi, with cold junction compensation
Temperature Range:	0°C to 500°C / 32 to 752°F
Calibration Accuracy:	≤ 0.25 %
Display Area:	Individual 7 segment LEDs for zone numbers, setpoints, and actual values
Monitoring Functions:	Thermocouple open, thermocouple reversed, temperature limit, heating current, Triac
Emergency Power-off System:	Load dump upon failed (shorted) triac
Alarm Signals:	Status LEDs at the controller, and neutral alarm contact on back panel, max. 250VAC/2A
Power Outputs:	Max. 230VAC/16A = 3680W per zone, with 25A Triacs and super-quick acting FF 16A fuses, 6.3 x 32 mm (0.25 x 1.25 in.)
Mould Connections:	As specified by the customer, at no extra costs
Mains:	400VAC +10% to -10%, 50...60 Hz, 3P/N/PE
Control Fuse:	MT 2A safety fuse, 5 x 20 mm (0.2 x 0.78 in.)
Mains Connection:	As specified by the customer, at no extra costs
Ambient Temperature Range:	Operating temperature 0° to +50°C (+32°F to +122°F) Storage temperature -30°C to +70°C (-22°F to +158°F)
Climatic Application Rating:	Acc. to DIN 40 040, mean annual relative humidity ≤ 75%, non-condensing
Enclosure Protection:	IP20
Protection Class:	I
Safety:	Manufactured to IEC 348 (DIN VDE 0411)
CE Marks:	EMC acc. to 89/336/EEC, EN 50081-2, EN 50082-2

Device executions

Type	Serial-No.	Dimensions (mm) W x H x D	Weight kg
fitron 4	410-xxxx-04	341 x 175 x 250	6
fitron 8	410-xxxx-08	341 x 175 x 250	7
fitron 12	410-xxxx-12	341 x 260 x 250	9
fitron 16	410-xxxx-16	341 x 260 x 250	10
fitron 20	410-xxxx-20	341 x 345 x 250	12
fitron 24	410-xxxx-24	341 x 345 x 250	13
fitron 28	410-xxxx-28	341 x 430 x 250	15
fitron 32	410-xxxx-30	341 x 430 x 250	16

xxxx: To be replaced by customer specific version number upon receipt of order.

Options, designated by serial number extension

a = Temperature reduction per machine control, 24VDC

v = Data input locking per key switch

M = Memory for 40 mould settings.

Optional Accessory: Serial Interface

RS485

411-xxxx-xx

RS232

412-xxxx-xx

TTY

413-xxxx-xx

Order example: 410-xxxx-12avM



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