OMRON

EJ1N

Multi loop in-panel temperature controller

5 things never to forget

1. Reduce Crossover Wiring with Horizontal Connection Structure. Simply connect power supply line and RS485 to end unit module to power up the entire system.

2. Fit in your machine configuration perfectly Up to 64 module can be installed on the same communication RS485 line.

3. Build-in 2-or 4-loop (Ch) PID control or ON/OFF.

4. Universal inputs for thermocouple, platinum resistance sensors and linear sensors to decrease number of items to keep at stock.

5. Available with screw and screw-less clamp terminals technology.

Features and benefits

• Build-in 2-or 4-loop (Ch) PID control or ON/OFF control functions not required temperature control programming
• Heaters diagnostic available (heater burnout/Solid State fault/ heater overcurrent)
• Detachable front connector with screw-less terminals for easy installation and maintenance

Important to find out

• Are you using several (more then 4) temperature controllers loops in your machine and would like to save space in the cabinet and wiring?
• Would you like to minimize effort to make ready to start your temperature controller and/or minimise maintenance and installation activity on your plant?

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Markets and applications

Plastic&Rubber:

On a water-cooled extrusion molding machine, increased speed leads to temperature variations due to various factors. For human operator that means repeatedly make valve adjustments to stabilize the quality. However It is really difficult to achieve high speed production while also maintaining the quality. With the EJ1N, the Independent Autotuning for heating/cooling PID control function suppresses the temperature variations to a minimum and raises the production capacity with the quality maintained.

Sales considerations

EJ1N is very affordable multiloop in-panel temperature controller solution. It allow customers not only to design new machine adopting entry level bus connectivity as RS485/Modbus RTU, but even easily handle retrofit activity on aged machines. It provide modular approach with 2/4 loops models fitting perfectly in each machine configuration. Linear inputs capability open additional options not focusing only on traditional temperature sensors. Finally Omron 2-PID control/AutoTuning algorithms minimize commissioning cost allowing even not expert users to take out the best performance from each pid control application.

Competitors

• GEFRAN - Product series: GFX and GFX4
• WEST (http://www.westinstruments.com) - Product series: MAXVU, MLC 9000
• ERO ELECTRONICS (http://www.eroelectronic.com) - Product series: RFS
• ASCON (http://www.ascon.it) - Product series: KRD3, K30, D1, D2, D3
• EUROTHERM (http://www.eurotherm.co.uk) - Product series: 2500
• CD AUTOMATION (https://www.cdautomation.com) - Product series: REVO TC
• PIXSYS (http://www.pixsys.net/en) - Product series: DRR460, DRR450
• PMA (http://pma-xtra.de/en) - Product series: KS VARIO