

Temperature controller up to 252 zones with Windows operator terminal

Thermoplay SpA presents the new temperature control unit up to 252 zones, which is provided with 15" touch screen display operator terminal, USB interface, in a cast aluminium sturdy structure. By means of the WLAN remote connection it is possible to perform online technical assistance, set the process parameters, automatic test of connections and injection systems heaters.

New smaller electronic boards (max. 6.3 A for each zone) for heating the nozzles provide modular expansion in modules of 6 zones.

The control unit performs continuous check on each zone power absorption allowing fast intervention in case of plastics leakage

or failures of the injection system components.

Regardless of the number of zones and operator interface, the new Thermoplay temperature controller provides the following functions/ key features:

- Synchronous increase of temperatures despite the thermal inertia of different zones: delayed start-up of the nozzle zones is avoided
- "Slave" function: each zone can be linked to another with similar thermal behaviour (operator's choice) if a thermocouple is interrupted. This is a valid alternative to manual operation.
- Plastic leakage alarm: the controller continuously monitors each zone's absorption and

allows immediately intervention if plastic leaks from a nozzle.

- Collective modification of all zones: set temperature and all the control and alarms parameters can be simultaneously modified on all the zones. This happens by pressing a panel button.
 - Immediate and complete diagnostic: the controller identifies and signals the thermocouple failures (breaking and inverted connection), fuse and heater interruption, solid state relay faults, phase power supply interruption.
 - Phase modulation adjustment for a more efficient soft start
 - Regulation outputs offset to avoid absorption peaks on three-phase mains 2 independent set points.
 - Multi language
 - Electronic board immune to over-voltage due to incorrect connection to power supply line.
 - Max working temperature: 50 °C
 - Main protection with circuit breaker
 - 3-phase 400V supply voltage with neutral, 3-phase 240V without neutral
 - CE Certification
- Optional:
Alarm/enabling outputs for connection with injection press
Interconnection of 2 (or more) controllers: all zones connected to one of the two control units (regardless of which) will follow the same temperature increment.



(Picture: THERMOPLAY S.p.A, I-Pont St. Martin)