

## Permanent Auto-Tuning Modular Controllers

**NEW !**  
8 Series  
SINGLE-ZONE



8 Series cabinet  
single-zone

8SX



Single-zone  
Controller

8DX



Dual-Zone  
Controller



8 Series cabinet  
dual-zone

8  
Series

*The 8 series controller has been designed for molding applications with a low number of control zones, particularly in the automotive and technical molding industry.*

*Extremely compact, these twin zone modular controllers can be fitted into cabinets for 2 to 24 channels.*

*The 8 series benefits from the latest manufacturing technology including the optimum use of surface mounted electronic components (SMC) and becomes a new milestone in terms of performance, robustness and price.*

# TEMPERATURE CONTROLLER FOR HOT RUNNER MOLDING SYSTEMS

8  
Series

## GENERAL SPECIFICATIONS

- Single-Zone & Dual-Zone Modular Controller
- 6 cabinet sizes (2, 4, 8, 12, 16 and 24 zones)
- 16 Amps per zone (3600 W)
- Press up/down to adjust set temperature, there are two different sets of up/down keys, one for each zone.
- Zone display :
  - Temperature is displayed on the 3 red digits
  - Status and alarms are displayed on the green digit
- 2 levels of user interface :
  - **PREMIER** : Alarm and second set-point (stand-by)
  - **COM** : Alarm, second set-point (standby) + communication CAN bus, USB and RS 232/485.

## STANDARD FEATURES :

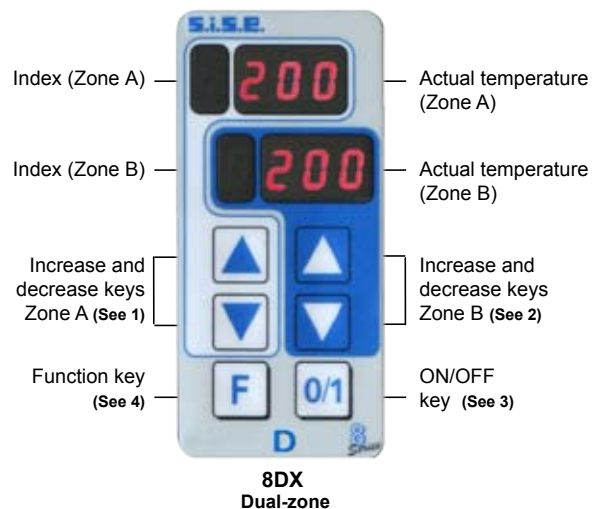
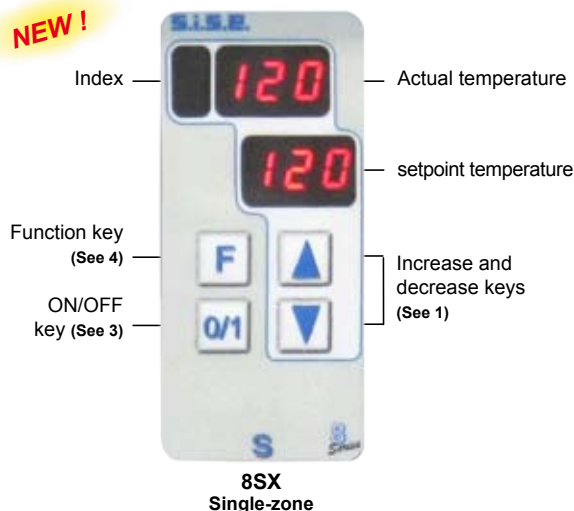
- Permanent self tuning control by S.I.S.E.
- Automatic and manual mode
- 2 setpoint values (Active and Stand-by)
- Selectable soft start modes (either 15%/100°C or ramp rate in °C/minute)
- Current measurement (Amps)
- Nominal power of heating elements measurement (kW)
- Separately adjustable alarms on temperature deviation (High and Low)
- Alarms on thermocouple faults (breakage, inversion)
- Alarm on heating element failure

## ADVANCED FEATURES :

- Shift to manual mode in case of temperature failure (or simple alarm, according to the controller's configuration).
- COM interface allows:
  - Communications with machines according to Euromap 17/ Euromap 66
  - RS 232/485, CAN BUS and USB (Win'Sise Software) standards.

## DESCRIPTION OF THE 8 SERIES CONTROLLERS

NEW !



- 1) These 2 buttons control the value of both the setpoint and the parameters of zone A and are also used to adjust options (mode, control type, unit...)
- 2) These 2 buttons control the value of both the setpoint and the parameters of zone B, in the case of a dual-zone controller. These buttons are also used to adjust options (mode, control type, unit...)
- 3) This key switches the device on or off. Keeping the key pressed has no effect. The controller, when switched off, is still under power, but doesn't regulate. The display shows **OFF**.
- 4) This key allows access to main parameters and settings.

# TEMPERATURE CONTROLLER FOR HOT RUNNER MOLDING SYSTEMS

*The 8 Series controllers offer 2 levels of user interface for all types of applications, from the most simple to the most sophisticated, especially with the communication capability to Euromap 17/66, CAN Bus, USB and RS 232/485 standards.*



Twin zone cabinet  
**PREMIER** Configuration



4 zones cabinet  
**PREMIER** Configuration

**NEW !**



8C4S - 4 zones cabinet  
**SINGLE-ZONE**

**8**  
Series

The 8 Series Controller uses a new version of the high performance Permanent Self-Tuning Control software developed by SISE.

Thanks to permanent monitoring of the process characteristics' variations, the software optimizes the control parameters.

SISE CONTROLLERS ARE THEREFORE COMPATIBLE WITH ALL HOT RUNNER SYSTEMS AVAILABLE ON THE MARKET.

Our software includes a Phase Angle Control system during the SoftStart phase and a Pulse Triggered & Zero Crossing (PWM) system during control phase. This ensures both the lifespan of the heating elements and compliance with CEM regulations.



8 zones cabinet  
**PREMIER** Configuration



12 zones cabinet  
**COM** Configuration



16 zones cabinet  
**COM** Configuration



24 zones cabinet  
**PREMIER** Configuration



16 zones cabinet  
SISE standard wiring.  
Customized wiring available upon request.

# TEMPERATURE CONTROLLER FOR HOT RUNNER MOLDING SYSTEMS

## TECHNICAL FEATURES FOR 8 SERIES CABINETS

Ref.	Number of zones	Dimensions W x H x D in mm	Net Weight / Max. weight	Switch or Circuit Breaker	max. admissible power in kW (supply 400V 3 PH + N)	Size / length connection cables (mm <sup>2</sup> / m)
8C1D	2	W136xH205xD250 mm	3,4 / 3,9 Kg	Switch 16A	3,6 kW *	3x2,5 mm <sup>2</sup> / 4,3
8C2S**	2	W208xH214xD300 mm	5,5 / 6,5 Kg	Switch 20A	14 kW	4x2,5 mm <sup>2</sup> / 4,3
8C2D	4	W208xH214xD300 mm	5,5 / 6,5 Kg	Switch 20A	14 kW	4x2,5 mm <sup>2</sup> / 4,3
8C4S**	4	W308xH214xD380 mm	5,5 / 7,7 Kg	Circuit br. 4x20A	14 kW	5G4 mm <sup>2</sup> / 4,3
8C6S**	6	W410xH214xD380 mm	6,5 / 9,8 Kg	Circuit br. 4x25A	17 kW	5G4 mm <sup>2</sup> / 4,3
8C4D	8	W328xH216xD430 mm	5,5 / 7,7 Kg	Circuit br. 4x25A	17 kW	5x4 mm <sup>2</sup> / 4,3
8C8S**	8	W510xH214xD380 mm	7,5 / 11,8 Kg	Circuit br. 4x25A	17 kW	5G4 mm <sup>2</sup> / 4,3
8C6D	12	W431xH216xD470 mm	6,5 / 9,8 Kg	Circuit br. 4x32A	22 kW	5x6 mm <sup>2</sup> / 4,3
8C8D	16	W533xH216xD470 mm	7,5 / 11,8 Kg	Circuit br. 4x40A	28 kW	5x6 mm <sup>2</sup> / 4,3
8CH6D	24	W430xH450xD400 mm	29 / 36 Kg	Circuit br. 4x63A	44 kW	5x10 mm <sup>2</sup> / 4,3

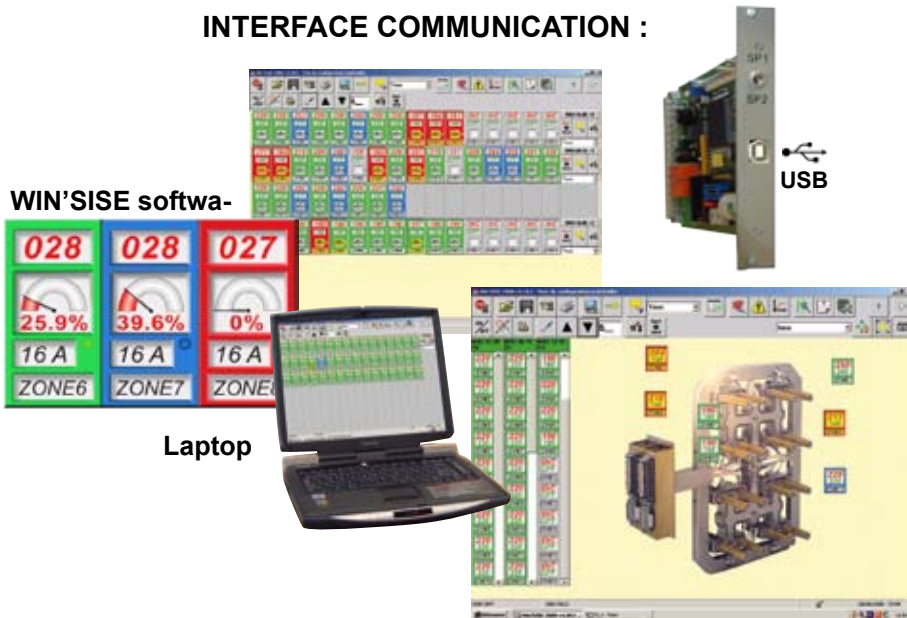
S : mainframe wiring for single-zone controller

D : mainframe wiring for dual-zone controller

(\* Power supply 230V singlephase)

\*\* NEW !

### INTERFACE COMMUNICATION :



### Machine E17 / E66 Communication

Touchscreen in option



# S.I.S.E.

**Hot Runner Controls**  
Mold Temperature Control  
Valve gate Controls  
Production Monitoring

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