



Permanent Auto-Tuning Modular Controllers

8
Series



8SX
Single-zone
Controller

8DX
Dual-Zone
Controller



8 Series cabinet
single-zone



8 Series cabinet
dual-zone

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 work in SISE 2 to 24 zone mainframes.

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



PLASTICS TECHNOLOGY UNDER CONTROL



GENERAL SPECIFICATIONS :

- 8SX Single-Zone & 8DX Dual-Zone Modular Controller
- 6 cabinet sizes (2, 4, 8, 12, 16 and 24 zones)
- 16 Amps per zone (3600 W)
- Change temperature using separate up/down keys for each zone.
- Zone display :
 - 3 digit temperature display in red
 - Status and alarms are displayed on the green digit
- 2 types of user interface :
 - **PREMIER** : Alarm and second set-point (stand-by) on dry contact.
 - **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 for broken or reversed thermocouple
- Alarm for heating element failure

Temperature Alarms !

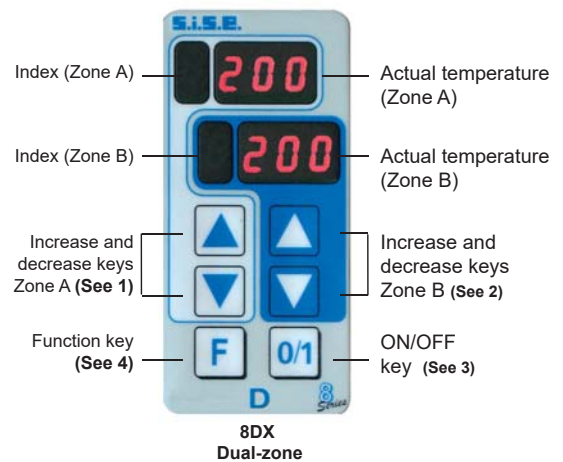
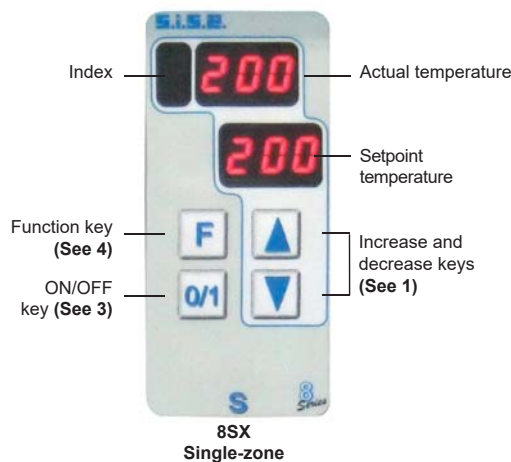


8 Series

ADVANCED FEATURES :

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

8 SERIES CONTROLLER DISPLAYS :



- 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.





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 zone cabinet
PREMIER Configuration



8C4S - 4 zone cabinet
MONOZONE



8 zone cabinet
PREMIER Configuration



12 zone cabinet
COM Configuration



16 zone cabinet
COM Configuration



24 zone cabinet
PREMIER Configuration



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

8 Series

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

SISE software optimizes control parameters by permanently monitoring and recalculating for variations in process characteristics.

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.





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 ² / m)
8C1D	2	132 x 194 x 270 mm	3,4 / 3,9 Kg	Switch 16A	3,6 kW *	3G2,5 mm ² / 4 m
8C2S	2	208 x 214 x 330 mm	5,5 / 6,5 Kg	Switch 20A	9,2 kW	5G2,5 mm ² / 4 m
8C2D	4	208 x 214 x 330 mm	5,5 / 6,5 Kg	Switch 20A	9,2 kW	5G2,5 mm ² / 4 m
8C4S	4	309 x 214 x 385 mm	9 / 11,5 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C4D	8	309 x 214 x 385 mm	9 / 11,5 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C6S	6	410 x 214 x 385 mm	11 / 14,5 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C6D	12	410 x 214 x 385 mm	11 / 14,5 Kg	Circuit br. 4x32A	22 kW	5G6 mm ² / 4 m
8C8S	8	510 x 214 x 385 mm	12,5 / 17 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C8D	16	510 x 214 x 385 mm	12,5 / 17 Kg	Circuit br. 4x40A	28 kW	5G10 mm ² / 4 m
8C12S	12	410 x 390 x 418 mm	12,5 / 19 Kg	Circuit br. 4x32A	22 kW	5G6 mm ² / 4 m
8C12D	24	410 x 390 x 418 mm	12,5 / 19 Kg	Circuit br. 4x63A	44 kW	5G16 mm ² / 4 m

S : mainframe wiring for single-zone controller
 D : mainframe wiring for dual-zone controller
 (* Power supply 230V singlephase)

COMMUNICATION INTERFACE :

WIN'SISE software

Laptop

USB

Machine E17 / E66 Communication

Optional Touchscreen

