



Ref: **5 TCOM**

**SELF-TUNING
CONTROL MODULE**

**WITH EUROMAP 17
COMMUNICATION**

SUPPLY : 220/240 V 50/60 Hz single phase

OUTPUT : 0 to 230 V x 20 A (4600 W) Phase control or pulse triggered & zero crossing
(Low voltage with addition of transformer)

INPUT : **Thermocouple Fe/Co (J)** linearisation, accuracy 0,5%
0 to 500°C (or 32 to 932°F according to configuration)
or **Thermocouple K** with linearisation, accuracy 0,5%
0 to 500°C (or 32 to 932°F according to configuration)

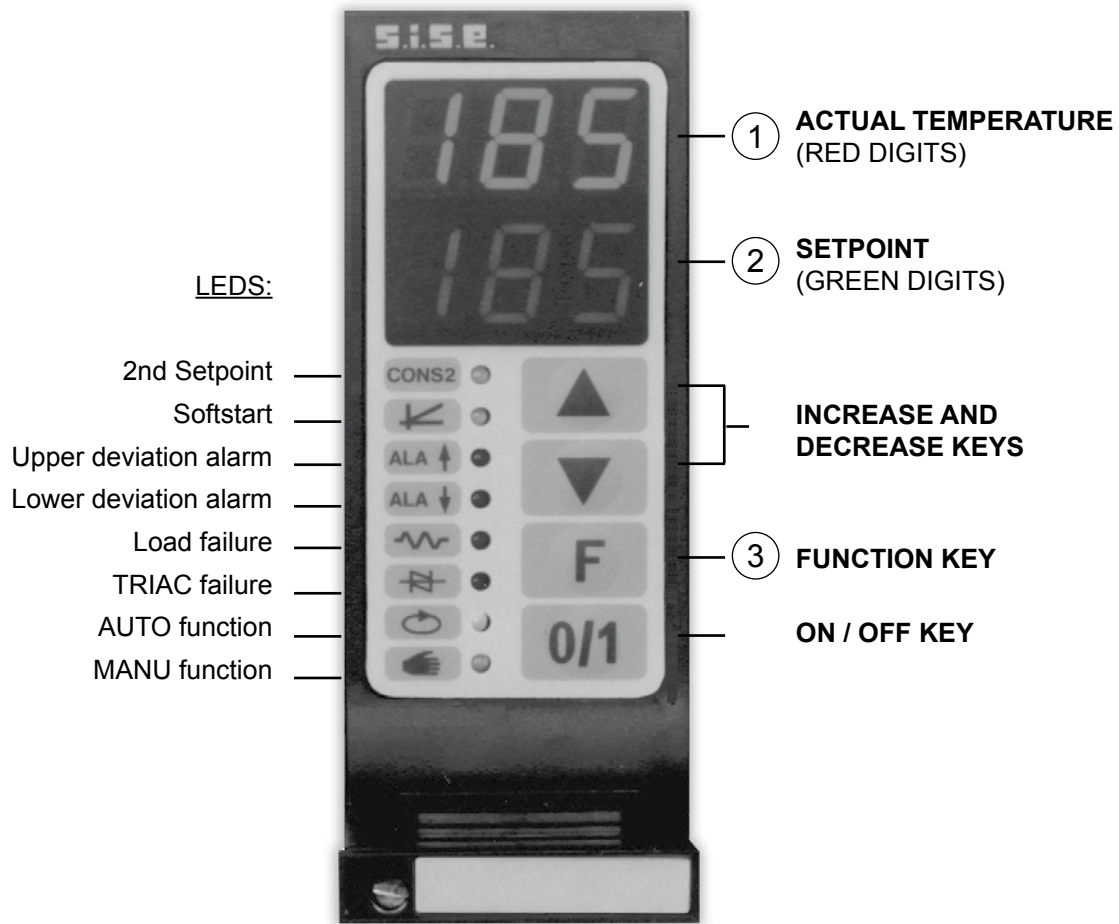
CONTROL : SELF-TUNING or programmable P.I.

FUNCTIONS : **COMMUNICATION** via RS485 using **EUROMAP 17** protocole
Automatic and manual
2nd Setpoint
Programmable softstart (either 15% / 100°C or rate °C/minute)
Display of current intensity (A)

SAFETY FEATURES : **Open thermocouple** (displays $\frac{E}{H}$ and stops heating)
Inverted thermocouple (displays $\frac{E}{H}$ and stops heating)
Upper / Lower deviation alarm (programmable)
Centralised alarm (output from cabinet relays and via EUROMAP 17 link)
TRIAC failure
Load failure
Fuse GRB 20A (on cabinet)
Protection against supply overvoltage and module overheating

EUROMAP 17 COMMUNICATION : **Allows transmission between moulding machine or PC and controllers, via RS485, according to EUROMAP 17 standard, of :**
- setpoints and process parameters etc... to controllers
- actual temperature, alarms etc... to moulding machine or PC

TEMPERATURE CONTROLLER FOR HOT RUNNER MOULDING SYSTEMS



- ① **ACTUAL TEMPERATURE** is displayed on the red display
- ② **SETPOINT** is displayed on the green display
- ③ **FUNCTION KEY** : Several items of data can be displayed by successive operation.

	<u>RED DISPLAY</u>	<u>GREEN DISPLAY</u>	<u>FUNCTION</u>
1 st push	<i>MOD</i>	<i>AUT</i> or <i>MAN</i>	Set of AUTO or MANU function by operating ▲ or ▼
2 nd push	<i>CO2</i>	xxx	Display and set of 2nd setpoint
3 rd push	<i>PcU</i>	xx.x	Power level used (%)
4 th push	<i>ANP</i>	xx.x	Actual RMS current supplied at output (Ampere)
5 th push	<i>AL1</i>	ox.x	Nominal power of heating elements (kW)
6 th push	<i>CFG</i>	1 or	Access to configuration parameters (see detailed specifications) For specialists only.
7 th push or after 5 sec.	Actual Temperature	Setpoint	Back to normal display.

S.I.S.E.

Hot Runner Controls
Mould Temperature Control
Sequential Moulding
Production Monitoring

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