



PROCESS HEAT















PROCESS HEAT CONTROL COMPONENTS

Intelligent and efficient hot-air solutions.

Temperature regulators: The masters of precision.

Leister temperature regulators allow the air temperature of air heaters and hot-air blowers to be precisely regulated. These regulators are perfectly matched to our Leister devices and facilitate easy and fast installation. They include a digital display for target/actual temperature and two freely programmable alarm outputs.

	Temperature controller CSS EASY	Temperature controller CSS	Temperature controller KSR digital	Temperature controller E5CC
				
Technical Data	CSS EASY	CSS	KSR DIGITAL	E5CC
Suitable for Leister air heaters	LHS SYSTEM	LHS SYSTEM, LE MINI SENSOR Universally deployable temperature regulator	LE 5000/10000 HT, LE 5000/ 10000 DF, LE 5000/10000 DF-R, 10 000 DF-C*	LE 5000/10 000 DF + SSR, LHS Classic + SSR, LE 5000/ 10 000 HT + SSR, MISTRAL
Regulation type	PID	PID	PID	PID
Ready to use with preconfigured parameter set	•	• (for LHS SYSTEM, MISTRAL SYSTEM, HOTWIND SYSTEM, VULCAN SYSTEM)	•	•
Accuracy	> 0.2 % of scale value at 25 °C	> 0.2 % of scale value at 25 °C	> 0.2 % of scale value at 25 °C	> 0.2 % of scale value at 25 °C
Switchover °C / °F	Configurable via keypad	Configurable via keypad	Configurable via keypad	Configurable via keypad
Temperature sensor / input	Type K / socket	Type K, PT100, screw connectors	Type K / socket	Type K / PT100, screw connectors
Alarm output	2 independently configurable alarms, Output at 2 floating relay contacts, 4-fold connector block	2 independently configurable alarms, Output at 2 floating relay contacts, Screw connector	2 independently configurable alarms, Output at 2 floating relay contacts, 2 mm receptacle	2 independently configurable alarms, Output at 2 floating relay contacts, Screw connector
Connection to air heater	RJ-45 socket for Leister Control Cable (see accessories)	Screw connectors	Via DSE	Via SSR with PWM signal or 4-20mA
Voltage	100 – 240 VAC, max. 8 VA	100 – 240 VAC, max. 8 VA	100 – 240 VAC, max. 8 VA	100 – 240 VAC, max. 8 VA
Mains connection lead	3 m, with Euro plug	Without lead, screw connectors	3 m, with Euro plug	Without lead, screw connectors
Mechanics	Regulator built into housing, ready to operate, can also be integrated into the front panel, with cut-out 67 × 67 mm	Regulator for front panel integration, with cut-out 45 × 45 mm	Regulator built into housing, ready to operate, can also be integrated into the front panel, with cut-out 67 × 67 mm	Regulator for front panel integration, with cut-out 45 × 45 mm
Dimensions (L × W × H)	175 × 72 × 72 mm	109 × 48 × 48 mm	175 × 72 × 72 mm	66 × 48 × 48 mm
Weight kg	0.45	0.20	0.50	0.10
Conformity mark				
Protection class II				
Order no.	125.944	123.039	111.164	137.720

* only with DSE

Controllers and interfaces: The clever combination.

Our non-electronic air heaters can be steplessly controlled externally using the DSE three-phase controller. The air temperature can also be precisely controlled using the KSR DIGITAL temperature controller.

Controller

Three-phase control unit DSE



Technical data





Three-phase control unit DSE

External power electronics module for non-electronic air heaters of series LE 5000 HT and LE 10 000 HT, LE 5000 DF and LE 10 000 DF

	Potentiometer-operation	for KSR DIGITAL
Heating power steplessly adjustable with potentiometer	•	
Remote control interface for KSR DIGITAL Temperature controller or external PLC control 0 – 12 V		•
Dimensions (L×W ×H)	mm	230 × 165 × 86
Fixture hole pitch	mm	150 x 150
Conformity mark	CE	
Protection class I	⊕	


DSE for	KSR	Potentiometer	KSR	KSR
Voltage	V ~ 3 x 230	3 x 400	3 x 400	3 x 480
Max. current	A 3 x 20	3 x 20	3 x 20	3 x 20
Order no.	110.574	110.571	110.572	114.024

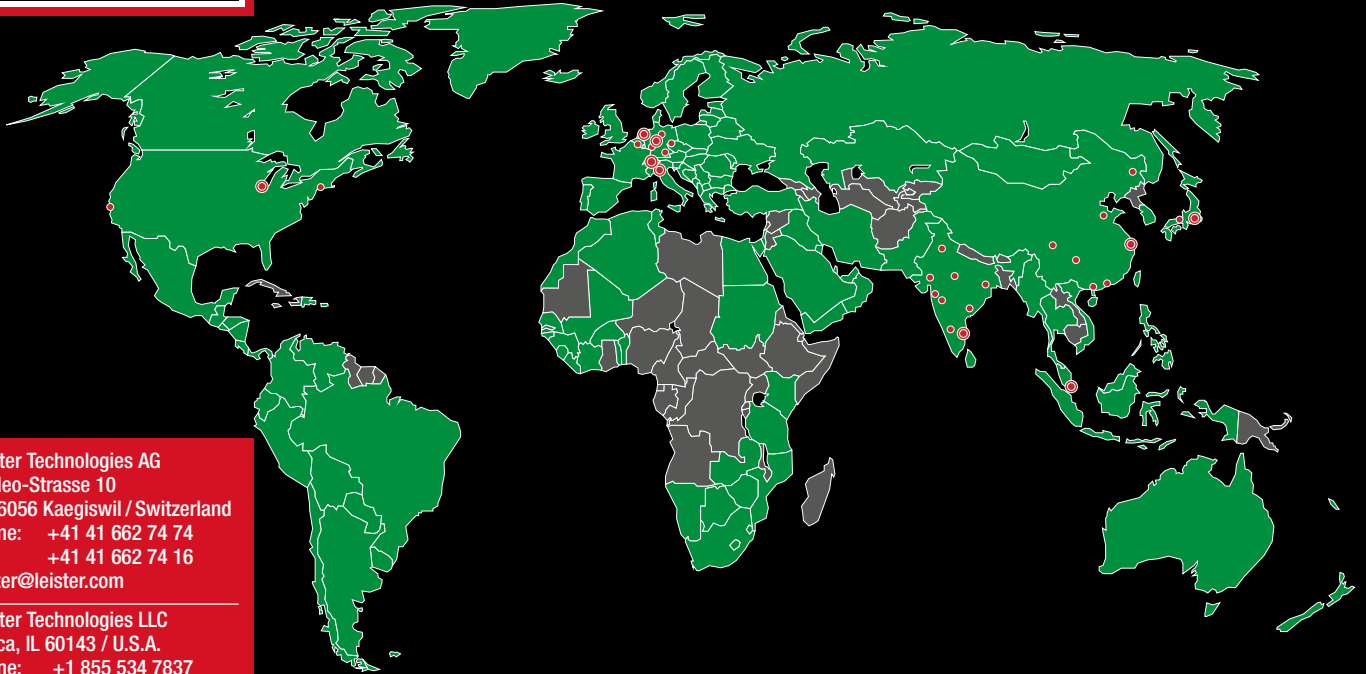
Accessories CSS EASY / CSS / KSR DIGITAL / DSE

	144.030 1 m 144.028 3 m 144.026 5 m One end single wires, one end RJ45
	111.331 Controller / Extension cable 5 m > KSR DIGITAL > DSE
	106.956 Thermocouple with plug, 1 m cable
	Thermocouple extension cable with plug and connection 106.958 2 m 106.960 4 m 106.962 10 m

Air Heaters
Controllers

Accessories Solid state relay

	159.220 Solid state relay 3 x 600 V / 40 A Input: PWM
	133.540 Solid state relay 1 x 230 V / 15 A Input: PWM



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