

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



Technical data	CSS EASY	CSS	KSR DIGITAL
Suitable for Leister air heaters	LHS SYSTEM	LHS SYSTEM, LE MINI SENSOR Universally deployable temperature regulator	LE 700, LE 3000, LE 3300, LE 5000 all types LE 10 000 all types,
Regulation type	PID	PID	PID
Ready to use with preconfigured parameter set	•	• (for LHS SYSTEM)	•
Configuration with PC and programming cable (see Accessories)	•	•	
Accuracy	Accuracy better than 0.2 % of scale value at 77 °F	Accuracy better than 0.2 % of scale value at 77 °F	Accuracy better than 0.2 % of scale value at 77 °F
Switchover °C °F	Configurable via keypad	Configurable via keypad	Configurable via keypad
Temperature sensor / input	Type K / socket	Type K, PT100, screw connectors	Type K / socket
Alarm output	2 alarms independently configurable Output at 2 floating relay contacts Output at 2 floating relay contacts	2 alarms independently configurable Output at 2 floating relay contacts Screw connectors	2 alarms independently configurable Output at 2 floating relay contacts 2mm receptacle
Connection to air heater	RJ-45 socket for Leister Control Cable (see Accessories)	Screw connectors	Socket, compatible with KSR models
Voltage	100 – 240 VAC, max. 8VA	100 – 240 VAC, max. 8VA	100 – 240 VAC, max. 8 VA
Mains connection lead	6.6 ft, with Euro plug	Without lead, screw connectors	6.6 ft, with Euro plug
Mechanics	Regulator built into housing, ready to operate, can also be integrated into the front panel, with cut-out 2.64 × 2.64 in	Regulator for front panel integration, with cut-out 1.77 × 1.77 in	Regulator built into housing, ready to operate, can also be integrated into the front panel, with cut-out 2.64 × 2.64 in
Size L × W × H	6.9 × 2.8 × 2.8 in	4.3 × 1.9 × 1.9 in	6.9 × 2.8 × 2.8 in
Weight (lbs)	0.99	0.44	1.1
Mark of conformity	CE	CE	CE
Protection classe II	□	□	□
Order no.	125.944	123.039	Contact your Leister sales & service center for technical details and ordering information.

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. The isolation amplifier offers galvanic separation of the control interface for Leister's legacy air heaters and hot air blowers.

Interface

Interface



Technical data Interface

This interface has to be used for reference voltage operation of LE 700 und HOTWIND

Power consumption	mA	10
Input range	V DC	0 – 7.5
Output range	V DC	0 – 7.5
Size (L x W x H)	in	6.49 x 2.36 x 3.15

Interface

Power supply voltage	V	120	230
For LE 700 KSR	Order no.	129.448	129.563
For HOTWIND S KSR	Order no.	129.572	129.573

Additional versions available on request

Accessories CSS EASY / CSS / KSR DIGITAL / DSE

125.854		Controller Cable with RJ45 connector 3.28 ft > CSS EASY > MPM 01
126.596		Programming cable with connection with DSUB9/V.24 connector for configuration with PC > CSS > CSS EASY
111.331		Controller/extension cable 16.4 ft > KSR DIGITAL > DSE

Controller

Three-phase adjustment unit DSE



Technical data Three-phase adjustment unit DSE

External power electronics module for non-electronic air heaters of series LE 5000 HT and LE 10000 HT, LE 5000 DF and LE 10000 DF

	Potentiometer-operation	for KSR DIGITAL
Heating power steplessly adjustable with potentiometer	•	
Remote control interface for KSR DIGITAL temperature regulator or external PLC control 0 – 12 V		•
Size (L x W x H)	in	9.05 x 6.49 x 3.38
Fixture hole pitch	in	5.9 x 5.9
Mark of conformity		CE
Protection classe II		⊕

DSE for	KSR	Potentiometer	KSR
Power supply voltage	V ~	3 x 230	3 x 400 – 440
Max. current	A	3 x 20	3 x 20
Order no.		110.574	110.571

Additional versions available on request

106.956		Thermocouple with plug, 3.28 ft cable
106.958 106.960 106.962		Thermocouple extension cable with plug and connection 6.56 ft 13.1 ft 32.8 ft
133.938 133.939		Single patch module SPM 01 Multi patch module MPM 01

Air Heaters