

Control units and interface

hot air blowers, as well as heaters, are installed into various machines and installations. Should the hot air temperature need precise measuring and at certain intervals or need to be displayed and controlled, these heaters can be equipped as standard with a KSR Digital (cascade controller) and a thermocouple.

Installations and machines with frequency convertors, such as spot welding machines, large commutator motors or other electrical tools, very often do not comply with the required EMC specifications. Values of electro-magnetic interference pulses, which are too high, can influence the KSR Digital controlling action.

KSR digital



single-phase adjustment unit ESE three-phase adjustment unit DSE



Interface



The Interface is necessary for galvanic separation of external voltage value (control voltage, potentiometer external) and Heaters type 700, 3000, 3300, 5000 and hot air blower Hotwind S.

Order Number	Illustration not to scale	Accessories	Tool
106.956		Thermocouple with plug, 1 m cable	KSR
106.957		1 m thermocouple extension cable with plug and connection	KSR
106.958		2 m Thermocouple extension cable with plug and connection	KSR
106.959		3 m thermocouple extension cable with plug and connection	KSR
106.960		4 m thermocouple extension cable with plug and connection	KSR
106.961		5 m thermocouple extension cable with plug and connection	KSR
106.962		10 m thermocouple extension cable with plug and connection	KSR

Technical data KSR digital

Mains supply	V~	100 – 240
Control system		PID
Alarm output		Closing contact 1A/250V
Thermocouple	Type	K
Display		Set and actual value digital
Parameter		variable adjustable
Size (L×W×H)	mm	175×72×72
Front face	mm	67×67

Necessary order details

- Heater type
- Length of control cable
- Thermocouple extension cable
- Temperature display °C oder °F
- Eventually max. temperature limit

Technical data ESE DSE

Technical data	ESE	DSE
Mains supply	V~ 100 – 230	3×230
	V~ 380 – 440	3×380 – 440
Max. current	A 20	3×20
Size (L×W×H)	mm 230×165×86	
Distance of mounting holes	mm 150×150	
Interface	KSR digital	

Necessary order details

- Heater(s) type
- Operating mode
(A) Potentiometer
(B) KSR

Technical data Interface

Mains supply	V~	120 / 230 / 400 or 480
Frequency	Hz	50/60
Current	mA	10 mA
Input	V	0 – 7.5 DC
Output	V	0 – 7.5 DC, 2 mA
Size (L×W×H)	mm	165×60×80