

# K 48/49

- CONTROLLER WITH INDEPENDENT TIMER
- 8 SEGMENTS PROGRAMMER
- WATTMETER FUNCTION



**FEATURES**

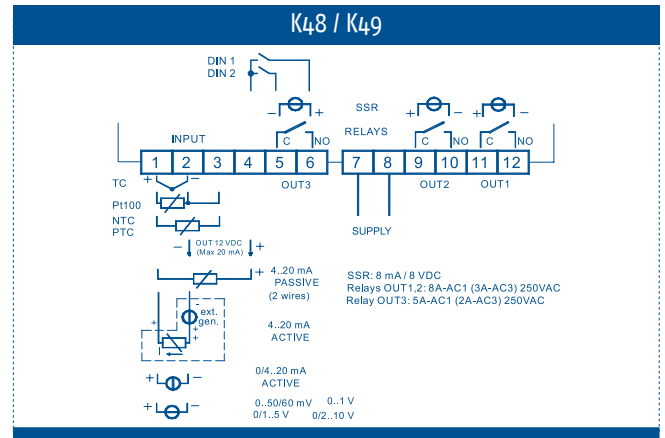
DISPLAY	K48	K49
Display	Single: 4 red digit, h 12 mm + 3 LEDs Bargraph	Dual: 4 red and 4 green digit, h 7mm
<b>INPUTS</b>		
4 different configurations	Thermocouples: J (0... 1000°C / 32... 1832°F), K (0... 1370°C / 32... 2498°F), S,R (0... 1760°C / 32... 3200°F), T (0... 400°C / 32... 752°F) and Infrared sensors J or K + Thermoresistances: 3 wires Pt 100 (-200... 850°C / -328... 1562°F)	
	Thermocouples: J (0... 1000°C / 32... 1832°F), K (0... 1370°C / 32... 2498°F), S,R (0... 1760°C / 32... 3200°F), T (0... 400°C / 32... 752°F) and Infrared sensors J or K + Thermistors: PTC KTY 81-121 (990Ω at 25°C) (-55... 150°C / -67... 302°F) and Thermistors: NTC 103AT-2 (10kΩ at 25°C) (-50... 110°C / -58... 230°F)	
	Linear signals 0/4... 20mA	
	Linear signals 0/10... 50mV, 0/12... 60mV, 0/1... 5V, 0/2... 10V	
Accuracy	± 0.5 % fs + 1 digit; tc S ± 1% fs + 1 digit	
Digital inputs	2 for free voltage contacts, as alternative to OUT 3	
<b>OUTPUTS</b>		
Up to 3	OUT 1 and OUT 2: Relay SPST-NO (8 A-AC1, 3 A-AC3 / 250 Vac) or 12V ± 20% 20 mA max. to drive SSR OUT 3: Relay SPST-NO (5 A-AC1, 3 A-AC3 / 250 Vac) or 12V ± 20% 20 mA max. to drive SSR	
Auxiliary power supply	12 Vdc/20 mA max.	
<b>FUNCTIONAL</b>		
Control	ON/OFF, Neutral Zone, PID single and double action	
PID functions	PID H/C control with overshoot control, Selftuning and 2 Autotuning algorithms	
Multi Set Point	Up to 4 pre-programmable Set Point	
Program	Up to 8 segments with guaranteed soak	
Timer	Independent with 4 function modes	
Serial communication	TTL ModBus	
<b>GENERAL</b>		
Power supply	24 Vac/Vdc, 100... 240 Vac/Vdc ± 10% (50/60 Hz)	
Power consumption	6 VA approx.	
Dimensions / Weight	48 x 48 mm (1/16 DIN) - depth 98 mm / 180 g approx.	
Mounting	Flush in panel in 45 x 45 mm hole	
Connections	Screw terminal block 2 x 1 mm <sup>2</sup>	
Front protection degree	IP 65, mounted on panel with gasket	
Operating / storage temperature	0... 50°C (32... 122°F)/-30... 70°C (-22... 158°F)	
Operating humidity	20... 85 RH% without condensation	
Conformity	Directive EMC 2004/108/CE (EN 61326-1), Directive BT 2006/95/CE (EN 61010-1)	

# HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

K48/K49	CODE
<b>VERSION</b>	
Controller	-
Controller + Timer	T
Controller + Timer + Programmer	P
<b>POWER SUPPLY</b>	
24 Vac/Vdc	L
100... 240 Vac	H
<b>INPUT</b>	
TC, PT100, mV	C
TC, PTC, NTC, mV	E
0/4... 20mA	I
0... 1V, 0/1... 5V, 0/2... 10V	V
<b>OUT 1</b>	
Relay SPDT 8A-AC1	R
Vdc for SSR driving	0
<b>OUT 2</b>	
Relay SPDT 8A-AC1	R
Vdc for SSR driving	0
Not available	-
<b>OUT 3/ DIGITAL INPUTS</b>	
Relay SPST-NO 5A-AC1	R
Vdc for SSR driving	0
2 digital inputs	D
Not available	-

# CONNECTIONS



# DIMENSIONS

