

K85

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



FEATURES

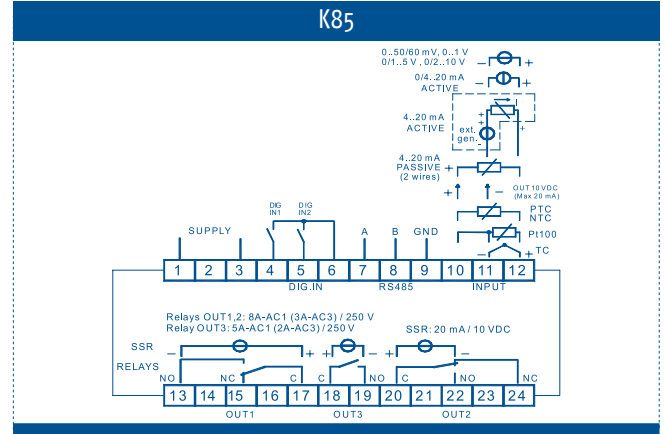
DISPLAY	
Single	K85 4 red digit, h 12 mm + 3 LEDs Bargraph
INPUTS	
4 different configurations	Thermocouples: J (0... 1000°C / 32... 1832°F), K (0... 1370°C / 32... 2498°F), S,R (0... 1760°C / 32... 3200°F), T (0... 400°C / 32... 752°F) and Infrared sensors J or K + Thermoresistances: 3 wires Pt 100 (-200... 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)
Accuracy	Linear signals 0/4... 20mA Linear signals 0/10... 50mV, 0/12... 60mV, 0/1... 5V, 0/2... 10V ± 0.5 % fs + 1 digit; tc S ± 1% fs + 1 digit
Digital inputs	2 for free voltage contacts
OUTPUTS	
Up to 3	OUT 1 and OUT 2: Relay SPDT (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.
FUNCTIONAL	
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
Signal retransmission	Set Point
Serial communication	RS485 with ModBus-RTU (JBUS) protocol
Baud rate	1200... 38400 baud, programmable
GENERAL	
Power supply	24 Vac/Vdc, 100... 240 Vac/Vdc ± 10% (50/60 Hz)
Power consumption	6 VA approx.
Dimensions / Weight	4 DIN rail module, 70 x 84 mm - depth 60 mm / 230 g approx.
Mounting	On OMEGA DIN A rail
Connections	Screw terminal block 2 x 1 mm ²
Front protection degree	IP 40
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

K85	CODE
VERSION	
Controller	-
Controller + Timer	T
Controller + Timer + Programmer	P
POWER SUPPLY	
24 Vac/Vdc	L
100... 240 Vac	H
INPUT	
TC,PT100,mV	C
TC,PTC,NTC,mV	E
0/4... 20mA	I
0... 1V, 0/1... 5V, 0/2... 10V	V
OUT 1	
Relay SPDT 8A-AC1	R
Vdc for SSR driving	0
OUT 2	
Relay SPDT 8A-AC1	R
Vdc for SSR driving	0
Not available	-
OUT 3/ DIGITAL INPUTS	
Relay SPST-NO 5A-AC1	R
Vdc for SSR driving	0
Not available	-
SERIAL COMMUNICATION	
RS485	S
TTL ModBus	-
DIGITAL INPUT	
2 digital inputs	D
Not available	-

CONNECTIONS



DIMENSIONS

