



K 85

4 DIN module - up to 3 outputs

Regulators / mini-programmers
with wattmeter function and independent timer

APPLICATION SECTORS

- Shoemaking Machineries
- Glueing and binding machines (hot glue)
- Packaging and blister packing machines
- Paint booths
- T-shirt print
- Climatic chambers
- Hot runner
- Glass bending ovens
- Extruders
- Industrial baking or large kitchens
- Continuous multi-zone ovens (for PCB, for leather goods, etc.)
- Ceramics ovens
- Heat-treatment ovens
- Ovens for goldsmiths and dentists
- Simple cascade controls

- Input for TC, RTD, PTC, NTC, mA or V
- **User Calibration**
- H/C PID Control with overshoot control, self-tune and **2 Autotuning algorithms**
- **8 segment programmer function with events** and stasis control (guaranteed soak)
- **Independent timer** with 4 functioning modes
- H/C On/OFF Control with compressor protection time
- **Wattmeter** for calculating the instantaneous power and energy used
- **Digital Retransmission** of the set point
- **Counter** for days and hours worked with programmable threshold for **programmed maintenance**
- Delay at the start up function
- **Parameter sequence freely programmable**
- Ramp to set point change
- RS485 Serial Communication with Modbus RTU protocol
- Soft start

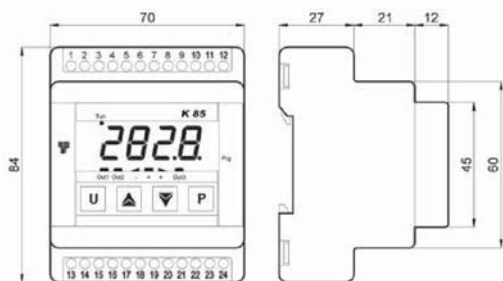
K 85 - 4 DIN module up to 3 outputs



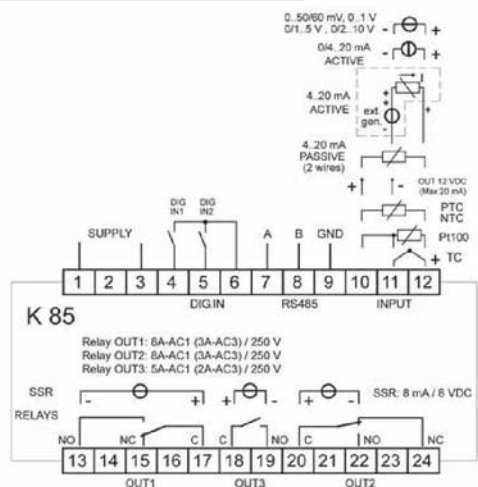
MECHANICAL DATA

Housing: UL 94 V0 self-extinguishing plastic
Mounting: on Omega DIN rail
Dimensions: 4 DIN module, 70 x 84 mm, depth 60 mm
Display: 4 Red Digit h 12 mm
Weight: 180 g approx.
Terminal block: 24 screw terminals (screw M3 for cables from 0.25 to 2.5 mm² or from AWG 22 to AWG 14)
Protection degree: IP 40 (screw terminal IP20) according to EN 60070-1 for indoor use.

DIMENSIONS (in mm)



CONNECTIONS



HOW TO ORDER

K85 - = Regulator
 K85T = Regulator + timer
 K85P = Regulator + timer + programmer

Power supply

L = 24 V AC/DC
 H = 100 - 240 V AC

Input

C = J, K, R, S, T, PT100, 0/12...60 mV
 E = J, K, R, S, T, PTC, NTC, 0/12...60mV
 I = 0/4...20 mA
 V = 0...1V, 0/1...5V, 0/2...10V

Out 1

R = SPDT 8 A Relay (resistive)
 O = VDC for SSR

Out 2

- = Not available
 R = SPDT 8 A Relay (resistive)
 O = VDC for SSR

Out 3

- = Not available
 R = SPST-NO 5 A Relay (resistive)
 O = VDC for SSR

Communication

- = TTL ModBus
 S = RS 485 ModBus

Digital input

- = Not available
 D = 2 digital inputs

ACCESSORIES

A01 - Programming key

Makes it possible to:

- Memorize the configuration of an instrument to transfer it to other instruments
- Transfer a configuration to a PC
- Memorize a configuration memorized in a PC
- Let the instrument "converse" directly with a PC.



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