K 49 PROCESS CONTROLLER

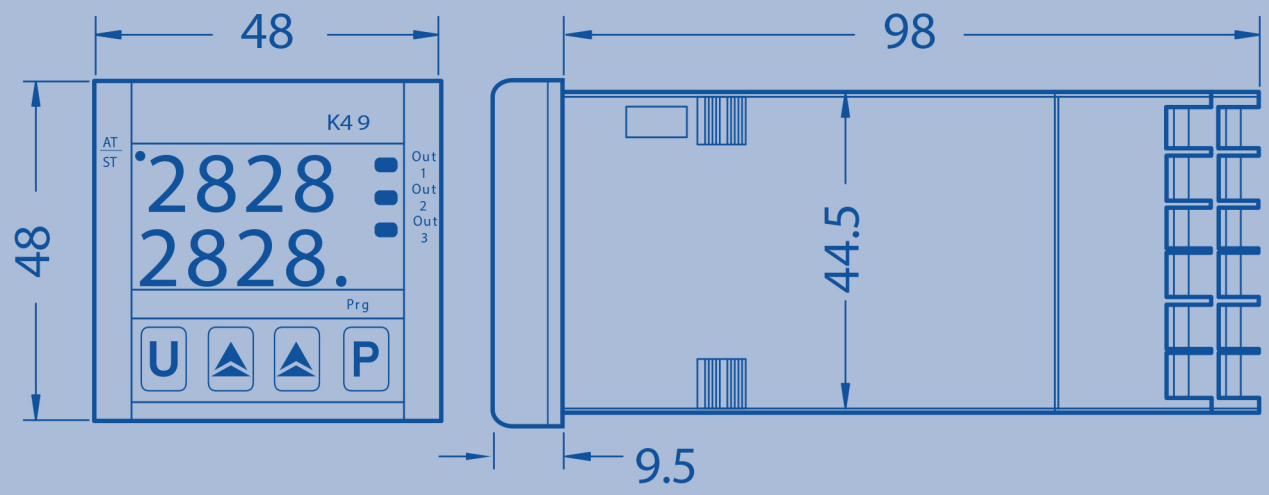
FEATURES

PID CONTROLLER WITH AUTOTUNE
UP TO 3 OUTPUTS
4 OR 8 SEGMENT PROGRAMMER
INDEPENDENT TIMER
MEMORY KEY / PC PROGRAMMING PORT
OPTIONAL:
POWER USAGE MONITOR
WORKED HOURS/DAY COUNTER

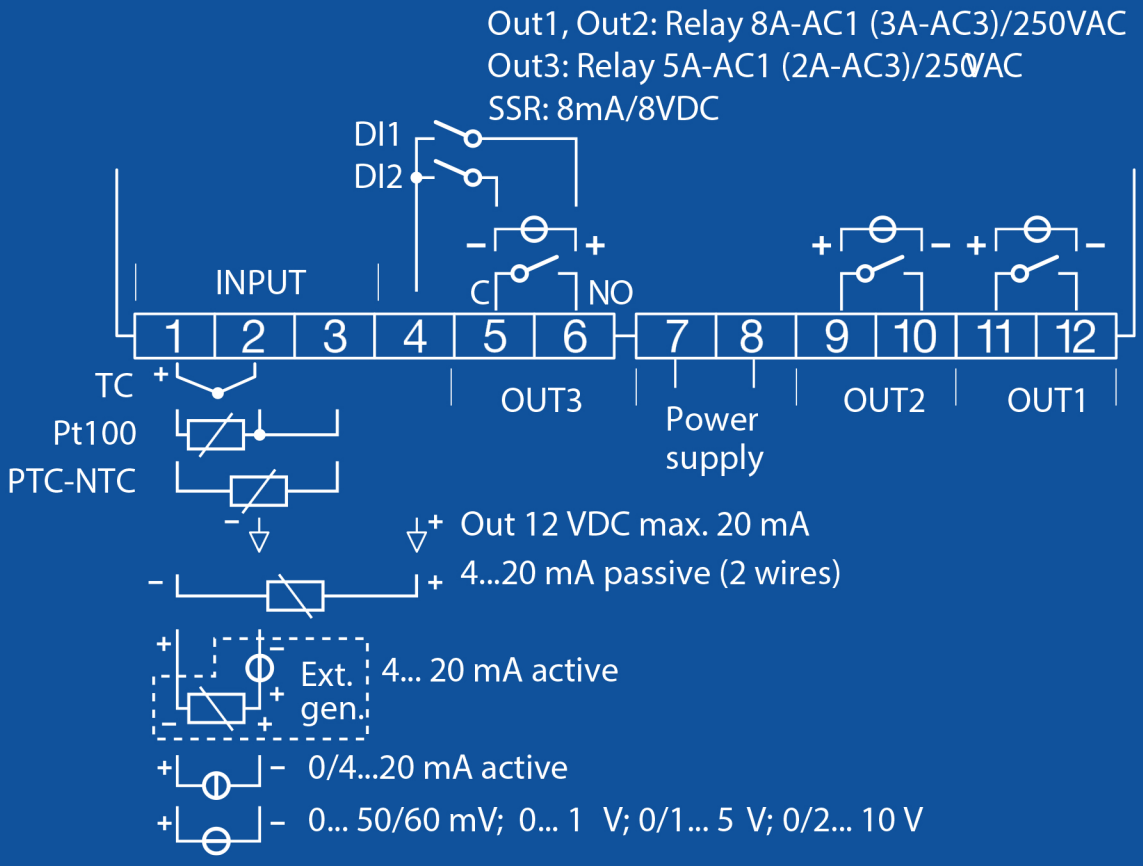
SPECIFICATIONS

Display	
Dual LED	**Main Display:** 4-digit h 7mm Red
	Secondary Display: 4-digit h 7mm Green
Inputs	
Input Options	**Thermocouples:** J (-50... +1000°C/-58... +1832°F), K (-50... +1370°C/-58... +2498°F), S/R (-50... +1760°C/-58... +3200°F), T (-70... +400°C/-94... +752°F)
	Infrared Sensors: J or K
	RTC: Pt100 3 wires and Pt1000 2 wires (-200... +850°C/-328... +1562°F)
	Thermistors: PTC KTY81-121 (-50... +150°C/-58... +302°F), NTC 103-AT2 - 50... +110°C/-58... +230°F)
	Linear Signals: 0/12... 60Mv, 0/4... 20Ma, 0/1... 5V, 0/2... 10V
Measurement Accuracy	±0.5% span ± digit, (±1 digit for T/c type S)
Digital Inputs	1 Volt free
Outputs	
Up to Four	**OUT1:** Relay SPDT 8A/240 Vac or voltage output for driving SSR, 12V min @ 20mA ±10% or analogue 4... 20Ma / 0/2-10Vdc galvanically isolated (option)
	OUT2 : Relay SPDT 8A /240Vac or voltage output for driving SSR, 12V min. @ 20Ma ±10%
	OUT3 : 5A 240v
Functional	
Control	PID single or double action, On/Off with Neutral Zone. Autotune, Selftune. Overshoot control
Alarms	3 alarms configurable as absolute, deviation, band
Set Point	4 set points selectable
Serial Communications	TTL (standard) + RS485 (optional), protocol: MODBUS RTU
Communication Speed	1200... 3400 baud selectable (8 bit + 1 stop bit, no parity)
Work hours/day counter	With two simultaneous functions: cumulative non-erasable and resettable with alarm (option)
Power Calculation	Instant power, hourly consumption during program running (option)
Programmer	Up to 4 segments with "guaranteed soak" (8 Segments Optional)
Timer	Independent with 5 operation modes
General	
Power Supply	12Vac/dc , 24 Vac/dc ±10%, 100... 240 Vac/dc (-15... +10%), 50/60 Hz, power consumption 5 VA max
Temperature	Operating Temperature: 0... 50°C (32... 122°F)
	Storage Temperature: -20... 70°C (-4... +158°F)
Environmental	20... 95 RH% with no condensation / IP65 FACIA
Conformity	EN 61010-1, EN 61326 c UL us

MEASUREMENTS



ELECTRICAL CONNECTIONS



HOW TO ORDER

USE THIS GUIDE TO FIND THE PART NUMBER OF THE PRODUCT YOU WANT

1 - MODEL

K85T = CONTROLLER + TIMER + 4 SEGMENT PROGRAMMER
K85P = CONTROLLER + TIMER + 8 SEGMENT PROGRAMMER

2 - POWER SUPPLY

F = 12v AC/DC
L = 24v AC/DC
H = 100-240v AC

3 - INPUT

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

4 - OUTPUT 1

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

5 - OUTPUT 2

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

6 - OUTPUT 3

- = Not Available
R = Relay SPST 5A (resistive load)
O = VDC for SSR