

KM1-KM1W

evolution

- 3 DYNAMIC COLOUR LED DISPLAY
- INDEPENDENT TIMER
- WORKING HOURS COUNTER
- WATTMETER FUNCTION



FEATURES

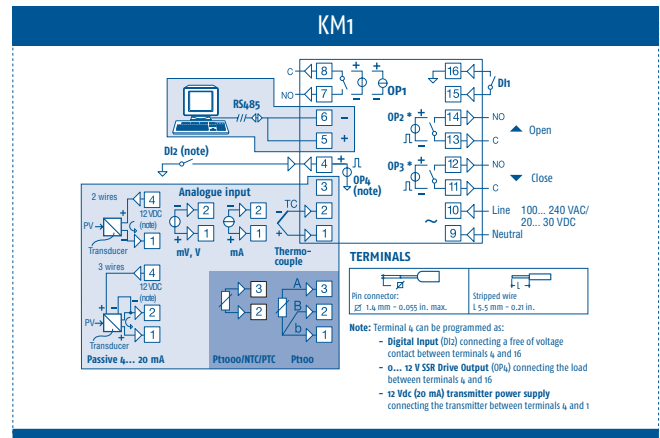
DISPLAY	KM1	KM1W
Dual LED	Main display: 4 digit h 15.5 mm 3 dynamic colours: red, green and amber Secondary display: 4 green digit, h 7 mm	Main display: 4 digit h 15.5 mm 1 fix colour: white Secondary display: 4 amber digit, h 7 mm
INPUTS		
Universal	Thermocouples: J (-50... +1000°C/-58... 1832°F), K (-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 Thermoresistances: 3 wires Pt 100 and 2 wires Pt 1000 (-200... 850°C/-328... 1562°F) Linear signals: 0/12... 60mV, 0/4... 20mA, 0/1... 5V, 0/2...10V	
Accuracy	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 Thermistors: PTC KTY81-121 (-55... +150°C/-67... 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	
Digital inputs	± 0.5% span ±1 digit, (±1% span ±1 digit for T/C S type)	
Outputs	1 or 2 according to instrument's part number (the 2nd digital input is alternative to OUT 4)	
OUTPUTS		
Up to 4	OUT 1: Relay SPST-NO 4A/240 Vac or voltage to drive SSR 13V max. @ 1mA, 10.5V min. @ 15mA ±10% OUT 2: Relay SPST-NO 2A/240 Vac or voltage to drive SSR 13V max. @ 1mA, 10.5V min. @ 15mA ±10% OUT 3: Relay SPST-NO 2A/240 Vac or voltage to drive SSR 13V max. @ 1mA, 110.5V min. @ 15mA ±10% OUT 4 programmable: voltage output to drive SSR 13V max. @ 1mA, 10.5V min. @ 22mA ±10% or transmitter supply or 2nd digital input	
FUNCTIONAL		
Control	PID single or double action, ON/OFF, ON/OFF with Neutral Zone Autotuning and Selftuning algorithms, Overshoot control	
Alarms	3 alarms programmable as absolute, deviation, band	
Set Point	4 programmable Set Points	
Serial communication	TTL (standard) + RS485 (optional), ModBus RTU protocol	
Baud rate	1200... 38400 baud	
Working hours counters	A cumulative non-erasable counter and a second one resettable with alarm	
Wattmeter function	Instantaneous power, time consumption	
EVOogreen	Stand-by mode of display, selectable	
Timer (optional)	Independent with 5 function modes	
GENERAL		
Power supply	24 Vac/Vdc ± 10%, 100... 240 Vac/Vdc -15%/+ 10%, 24... 240 Vac/Vdc ± 10% (50/60 Hz)	
Power consumption	7 VA max.	
Dimensions / Weight	48 x 48 mm (1/16DIN) - depth 48+14 mm / 125 g or 63.3+14 mm/ 151 g	
Mounting	Flush in panel in 45 x 45 mm hole	
Connections	16 screw terminals 2.5 mm ² (AWG22... AWG14) fix, plug-in or clamp type	
Front protection degree	IP 65, mounted on panel with gasket	
Operating / storage temperature	0... 50°C (32... 122°F)/-20...+70°C (-4... 158°F)	
Operating humidity	20... 95 RH%, without condensation	
Conformity	EN 61010-1, EN 61326	

HOW TO ORDER

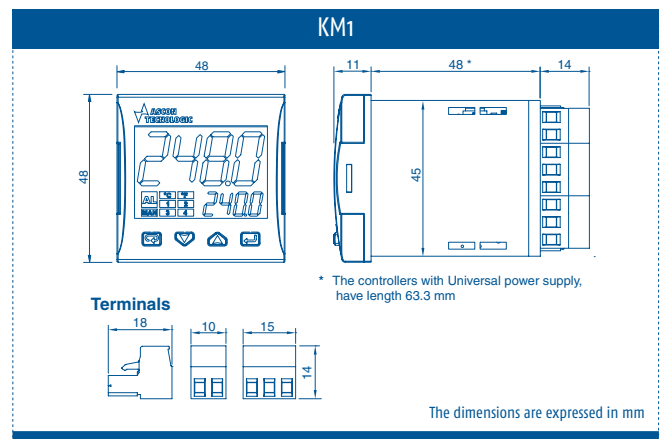
To compose the part number, pls. choose one of the option for each variable

KM1	CODE
MAIN DISPLAY	
3 dynamic colours: red, green and amber	-
1 fix colour: main display white, secondary display amber	W
VERSION	
Controller	-
Controller + Timer	T
POWER SUPPLY	
24 Vac/Vdc	L
100... 240 Vac/Vdc	H
24... 240 Vac/Vdc	U
INPUT	
TC, RTD, mA, V, mV + digital input 1	C
TC, NTC, PTC, mA, V, mV + digital input 1	E
OUT 1	
Relay SPST 4A	R
Vdc for SSR driving	O
OUT 2	
Relay SPST 2A	R
Vdc for SSR driving	O
Not available	-
OUT 3	
Relay SPST 2A	R
Vdc for SSR driving	O
Not available	-
IN/OUT 4	
Digital input 2 or digital output or transmitter supply	D
RS485	
Available	S
Not available	-
CONNECTION	
Plug-in screw type	E
Plug-in screw type, fix part only	N
Clamp type	M
Fix screw type (standard)	-

CONNECTIONS



DIMENSIONS



- INDUSTRIAL CONTROLLERS
- ADVANCED PROGRAMMER CONTROLLERS
- DIN RAIL MOUNTING CONTROLLERS
- THERMOSTATS ANALOGUE CONTROLLERS
- SPECIAL CONTROLLERS AND "CUSTOM"
- PAC SYSTEMS
- PRE-PROGRAMMED SYSTEMS
- PLC AND OPERATOR PANELS
- TIMERS COUNTERS POWER LIMITERS
- INDICATORS
- I/O MODULES
- SUPERVISION
- COMBUSTION CONTROL
- ACCESSORIES