

# KM3-KM3W

*evolution*

- 3 DYNAMIC COLOUR LED DISPLAY
- ANALOGUE CONTROL OUTPUT
- 8 SEGMENTS PROGRAMMER / TIMER
- WORKING HOURS COUNTER



**FEATURES**

DISPLAY	KM3	KM3W
Dual LED	Main display: 4 digit h 15.5 mm 3 dynamic colours: red, green and amber	Main display: 4 digit h 15.5 mm 1 fix colour: white
Secondary display: 4 green digit, h 7 mm		
INPUTS	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	
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 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	
Accuracy	± 0.5% span ±1 digit, (±1% span ±1 digit for T/c S type)	
Digital inputs	1 or 2 according to instrument's part number (the 2nd digital input is alternative to OUT 4)	
OUTPUTS	OUT 1: Relay SPST-NO 4A/240 Vac or voltage to drive SSR 13V max. @ 1mA, 10.5V min. @ 15mA ±10% or analogue galvanically isolated 0/4... 20 mA, 0/2... 10V (optional) 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, 10.5V 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	
Up to 4		
FUNCTIONAL	PID single or double action, ON/OFF, ON/OFF with Neutral Zone Autotuning and Selftuning algorithms, Overshoot control	
Control	Available	
Servomotor control	3 alarms programmable as absolute, deviation, band	
Alarms	4 programmable Set Points	
Set Point	Measuring or Set Point retransmission	
Signal retransmission	TTL (standard) + RS485 (optional), ModBus RTU protocol	
Serial communication	1200... 38400 baud	
Baud rate	A cumulative non-erasable counter and a second one resettable with alarm	
Working hours counters	Instantaneous power, time consumption	
Wattmeter function	Stand-by mode of display, selectable	
EVOogreen	Up to 8 segments with guaranteed soak	
Programmer (optional)	Independent with 5 function modes	
Timer (optional)		
GENERAL	24 Vac/Vdc ± 10%, 100... 240 Vac/Vdc -15%/+ 10%, 24... 240 Vac/Vdc ± 10% (50/60 Hz)	
Power supply	7 VA max	
Power consumption	48 x 48 mm (1/16DIN) - depth 48+14 mm / 125 g or 63.3+14 mm/ 151 g	
Dimensions / Weight	Flush in panel in 45 x 45 mm hole	
Mounting	16 screw terminals 2.5 mm <sup>2</sup> (AWG22... AWG14) fix, plug-in or clamp type	
Connections	IP 65, mounted on panel with gasket	
Front protection degree	0... 50°C (32... 122°F)/-20... +70°C (-4... 158°F)	
Operating / storage temperature	20... 95 RH% without condensation	
Operating humidity	EN 61010-1, EN 61326	
Conformity		

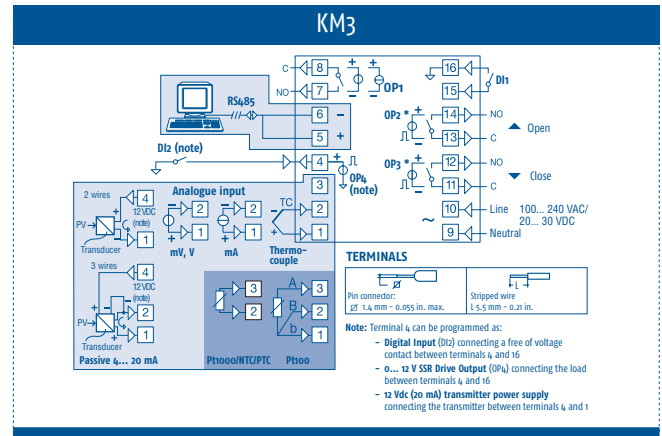
# HOW TO ORDER

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

KM3	CODE
<b>MAIN DISPLAY</b>	
3 dynamic colours: red, green and amber	-
1 fix colour: white	W
<b>VERSION</b>	
Controller	-
Controller + Timer	T
Controller + Timer + Programmer	P
<b>POWER SUPPLY</b>	
24 Vac/Vdc	L
100... 240 Vac/Vdc	H
24... 240 Vac/Vdc	U
<b>INPUT</b>	
TC, RTD, mA, V, mV + digital input 1	C
TC, NTC, PTC, mA, V, mV + digital input 1	E
<b>OUT 1</b>	
Relay SPST 4A	R
Vdc for SSR driving	O
0/4... 20 mA, 0/2... 10V galvanically isolated (control and retransmission)	I
<b>OUT 2</b>	
Relay SPST 2A	R
Vdc for SSR driving	O
Relay SPST 2A for Servomotor driving	M
Not available	-
<b>OUT 3</b>	
Relay SPST 2A	R
Vdc for SSR driving	O
Relay SPST 2A for Servomotor driving	M
Not available	-
<b>OUT 4</b>	
Digital input 2 or digital output or transmitter supply	D
<b>RS485</b>	
Available	S
Not available	-
<b>CONNECTION</b>	
Plug-in screw type	E
Plug-in screw type, fix part only	N
Clamp type	M
Fix screw type (standard)	-

(\*) To obtain the Servomotor control, OUT2 and OUT3 have to be selected as M.

# CONNECTIONS



# DIMENSIONS

