KRD50

- PROGRAMMER WITH 8 PROGRAMS AND 96 SEGMENTS DIVISIBLE IN 8 PROGRAMS
- I/O MODULE TO MATCH WITH TOUCH SCREEN HMI



FEATURES

INPUTS	KRD50
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
	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	
Up to 4	OUT 1: Relay SPDT 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, 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
Servomotor control	Available
Alarms	3 alarms programmable as absolute, deviation, band
Set Point	4 programmable Set Points
Signal retransmission	Measuring or Set Point retransmission
Serial communication	RS485, ModBus RTU protocol
Baud rate	1200... 38400 baud
Programmer	Up to 12 segments with guaranteed soak
Programs storage	Up to 8 programs
Program sequence	Up to 4 programs with different time base (h.min - min.s)
GENERAL	
Power supply	24 Vac/Vdc ± 10%, 100... 240 Vac/Vdc -15%/+ 10% (50/60 Hz)
Power consumption	7 VA max
Dimensions / Weight	78 x 35 mm (1/16 DIN) - depth 63 mm / 125 g
Mounting	On OMEGA DIN rail
Connections	24 screw terminals 2.5 mm² (AWG22.... AWG14) fix, plug-in or clamp type
Front protection degree	IP20
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

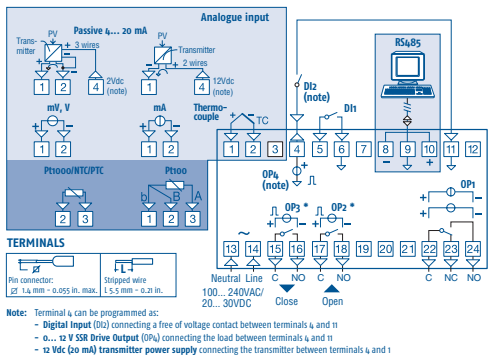
To compose the part number, pls. choose one of the option for each variable

KRD50	CODE
POWER SUPPLY	
24 Vac/Vdc	L
100... 240 Vac	H
INPUT	
TC, RTD, mA, V, mV + digital input 1	C
TC, NTC, PTC, mA, V, mV + digital input 1	E
OUT 1	
Relay SPDT 4A	R
Vdc for SSR driving	0
0/4... 20 mA, 0/2... 10V galvanically isolated (control and retransmission)	I
OUT 2	
Relay SPST 2A	R
Vdc for SSR driving	0
Relay SPST 2A for Servomotor driving	M
Not available	-
OUT 3	
Relay SPST 2A	R
Vdc for SSR driving	0
Relay SPST 2A for Servomotor driving	M
Not available	-
OUT 4	
Digital input 2 or digital output or transmitter supply	D
RS485	
Available	S
CONNECTION	
Plug-in screw type	E

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

CONNECTIONS

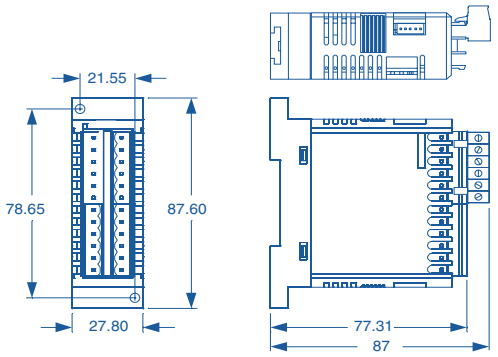
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Note: Terminal 4 can be programmed as:
- **Digital Input** (DI2) connecting a free of voltage contact between terminals 4 and 11
- **0... 12 V SSR Drive Output** (OP4) connecting the load between terminals 4 and 11
- **12 Vdc (20 mA) transmitter power supply** connecting the transmitter between terminals 4 and 1

DIMENSIONS

KRD50



The dimensions are expressed in mm

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