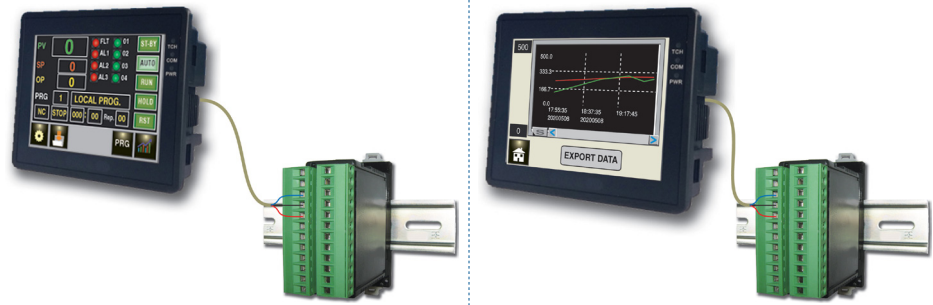


PRO SERIES

- OVEN CONTROL SYSTEM WITH TOUCH PROGRAMMER
- 3.5 "AND 4.3" TOUCH SCREEN OPERATOR PANEL

OPERATOR PANEL FEATURES



	35 PRO	43 PRO
OS + CPU	2416 platform – 32-bits 300MHz RISC	
Display	3.5" TFT	4.3" TFT
Resolution (pixel)	320 x 240	480 X 272
Brightness (cd/m²)	330	450
Colors – Contrast	260k – 500:1	65536 – 500:1
Touch screen	High precision 4-wire, resistive, LED backlight	
MEMORY		
Flash (MB) + RAM (MB)	128 + 128	
I/O PORTS		
USB Host + USB Client	Micro-USB	Micro-USB
Ethernet	Not available	Available
Serial port	COM1 RS232/RS422/RS485/(RS232+RS485)	COM1 RS232, COM2 RS422/RS485
POWER SUPPLY		
Power supply	24 VDC ±20%, power consumption 200 (mA @24V)	
MECHANICAL		
Case	ABS	ABS –“Open Frame” version available (without case and without Ethernet port)
Dimensions WxHxD	96 x 81 x 33 mm – Cut out 91 x 73 mm	142 x 86 x 30.3 mm – Cut-out 131 x 78 mm
Weight	260 g	390 g
Front protection	IP65	
Mounting	On panel + controller on DIN rail	
Operating temperature + operating humidity	–10... +60°C / 14º... +140°F – 10...90% RH senza condensa	
SOFTWARE		
Software (optional)	Pre-installed oven management program	
CONFORMITY		
Conformity	CE – EN61000–6–2:2005, EN610000–6–4:2007 Standard –FCC Class A	

KRD50 - PROGRAMMER MODULE FEATURES

INPUT	
One	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: Pt 100 3 wires and Pt 1000 2 wires (-200... 850°C/-328... 1562°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)
Digital inputs	1, always available
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, 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
FUNCTIONAL	
Control	Single or double action PID, On/Off, On/Off with Neutral Zone Autotuning algorithms, Overshoot control, Signal retransmission (measurement or Set Point)
Servomotors control	Available by selecting OUT2 and OUT3
Set points and alarms	3 alarms configurable as absolute, deviation, band
Serial communication	TTL (standard) + RS485 (optional), protocol: MODBUS RTU - Baud rate 1200... 38400 baud
Counting hours worked	Cumulative non-eraseable, and a second one resettable with alarm
Program (option)	Up to 8 segments with guaranteed maintenance
Timer (option)	Independent with 5 operating modes
GENERALS	
Power supply	24 Vac/Vdc ± 10%, 100... 240 Vac/Vdc -15%/+ 10% (50/60 Hz) - Power consumption 7 VA max.
Mounting	On OMEGA DIN A rail or on wall
Dimensions / Weight	72 x 33 mm / 200 g
Conformity	EN 61010-1, EN 61326 - UL

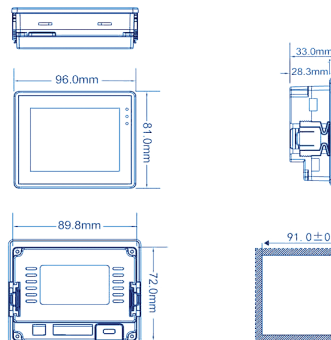
HOW TO ORDER

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

	CODE
MODEL	
Control system with 3.5 "panel	35 PRO
Control system with 4.3 "panel	43 PRO
PROGRAMMER	
KRD50 LCRRRDSE	L001
KRD50 HCRRRDSE (power adaptor 24V for display is needed)	H001

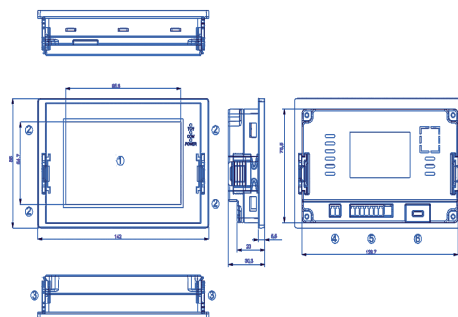
DIMENSIONS

35 PRO



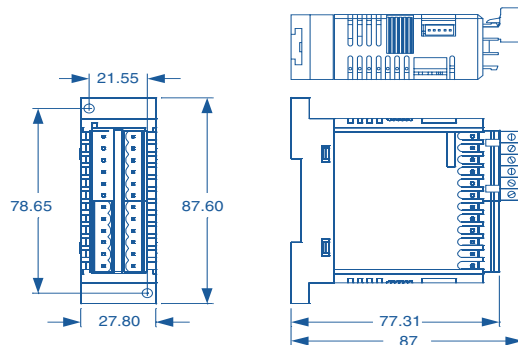
Dimensions are expressed in mm

45 PRO



Dimensions are expressed in mm

KRD50



Dimensions are expressed in mm