

KR1

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

evolution



FEATURES

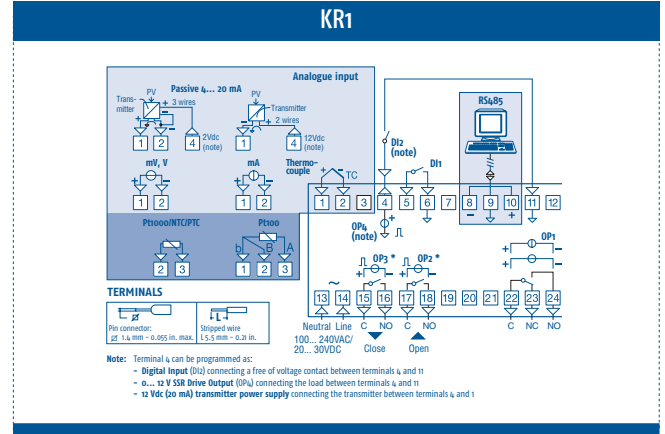
| DISPLAY | | KR1 |
|---------------------------------|--|-----|
| Dual LED | Main display: 4 digit h 11.7 mm. 3 colours: red, green and amber Secondary display: 4 green digit, h 7 mm | |
| INPUTS | | |
| Universal | Thermocouples: J (-50... +1000°C/-58... 1832°F), K (-50... +1370°C/-58... 2498°F), S/R (-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) 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% 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... 384,00 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% (50/60 Hz) | |
| Power consumption | 7 VA max. | |
| Dimensions / Weight | 78 x 35 mm - depth 78 mm + 14 mm (plug-in terminals) / 200 g | |
| Mounting | Flush in panel in 69 x 28 mm hole | |
| Connections | 24 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

| KR1 | CODE |
|---|------|
| VERSION | |
| Controller | - |
| Controller + Timer | T |
| 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 | 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 | - |
| 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

