

Universal Digital display DA9602R

This small universal display is a true all-rounder. It has a universal input for nearly all standard commercial temperature sensors and process signals. With its 24VDC sensors supply voltage up to 50 mA, an integrated totalising function and 2 relay outputs it is suitable for almost every application. Apart from the low installation depth, the ip65 front, the removable terminal blocks and the impressive clear display with 16 mm digit height, this product captivates by its excellent price/quality ratio.



- Universal display in 96 x 48 mm format
- Extremely low mounting depth 32 mm
- Universal input for process signals, thermocouples, Pt100
- 16 mm high red LED display
- 2 alarm outputs
- High protection class IP65 (front)
- Programming through buttons or software (USB-Port)

Display: LED-Display, 5-digit, red with 16 mm high figures,
Display area/measured value: -1.999 bis 30.000
Display area/Sum: 0 bis 9.999.999.999 (alternating display)

Indication: 10 red indicators for alarm states, serial communication, totaliser function, min. and max. value.
 °C, °F ON, depending on selection
 TX, RX, USB ON, communication via interface
 A1, A2 ON, when an alarm occurs
 TOT ON, totaliser function
 HIGH ON, totaliser 6 up to 10 digits are displayed
 LOW ON, when 1 up to 5 digits are displayed

Buttons: 4 buttons are for programming and adjusting nominal values.

Entry area: Adjustment of the input signal via buttons.
Thermocouple: Type J, K, T, N, R, S, B, E; reference junction:
Internal temp. sensor: Pt100 in 3-wire (alpha=0,00385)
Linear inputs: 0V up to 5/10V, 0/4 mA up to 20 mA, 0 mV up to 50 mV

Sensor type	Measuring range
Thermocoup. Type J	-110 °C bis 950 °C (-166 °F bis 1742 °F)
Thermocoup. Type K	-150 °C bis 1370 °C (-238 °F bis 2498 °F)
Thermocoup. Type T	-160 °C bis 400 °C (-256 °F bis 752 °F)
Thermocoup. Type N	-270 °C bis 1300 °C (-454 °F bis 2372 °F)
Thermocoup. Type R	-50 °C bis 1760 °C (-58 °F bis 3200 °F)
Thermocoup. Type S	-50 °C bis 1760 °C (-58 °F bis 3200 °F)
Thermocoup. Type B	400 °C bis 1800 °C (752 °F bis 3272 °F)
Thermocoup. Type E	-90 °C bis 730 °C (-130 °F bis 1346 °F)
Pt100	-200 °C bis 850 °C (-328 °F bis 1562 °F)

Accuracy:
 Thermocouples type J, K, T, E : 0,25 % of the range +/-1 °C
 Thermocouples type N, R, S, B: 0,25 % of the range +/-3 °C
 Pt100: 0,2 % of the range
 Linear analog input: 0,2 % of the range

Resolution:
 internal resolution with 65.535 steps (16 Bit),
 resolution of display 32.000 steps.

Measurement cycle: 55 Hz with programmable filter

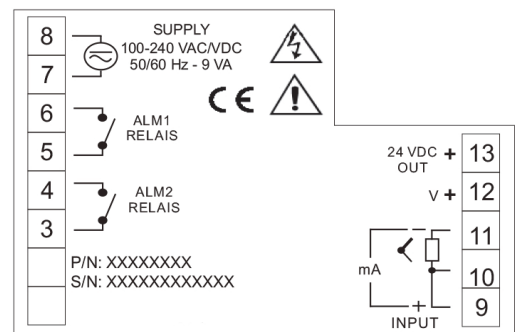
Input impedance: Thermocoup. Pt100, 0 to 50 mV: >10 moHM;
 0 to 5/10 V: >500 KOhm; 0/4 to 20 mA: 100 Ohm

Sensor power supply: 24 VDC +/-15 % @ 50 mA

Relay output: 2 closing contacts with separated grounds.
 1,5 A at 240 VAC/30VDC

Serial interface: Mini-USB (virtual COM-port)

Operating power supply:
 100 to 240 VAC +/-10 %, 50/60Hz, 6 VA



Protection class:
 front: dust-tight and jet-proof (IP65)
 Reverse side: IP20

Housing:
 Front: plastic housing of polycarbonat (PC) L94-V2
 Reverse side: ABS + PC UI94 V-0.

Dimensions: W 96 mm x H 48 mm x D 35 mm.
 panel space measuring according to DIN: 93,0 x 45,5 mm.
 mounting by means of lockable clamping brackets (plastic)

Connection: Via pluggable screw terminals.

Environmental conditions:
 Operating temperature: 0 °C to 50 °C
 Relative air humidity: 80% r.a.h. @ 30 °C
 For temperatures above 30 °C: 3% r.a.h. reductions per °C

Scope of delivery: Device, fixing material, seal, operating instructions.