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Universal panel meter DA9602R

- Universal panel meter in 96 x 48 mm DIN format
- Extremly short mounting depth of 32 mm
- Universal input for process signals, thermocouples and RTD
- 16 mm high red LED display
- 2 alarm outputs as relay
- Protection IP65 from the front
- Programming via buttons or software (USB-Port)



DA9602R

The DA9602 is a quite versatile process indicator with totalizing function. With a wide list of input types - thermocouples, thermo-resistance, voltage and current the DA9602 is capable of measuring the majority of the variables and sensors encountered in industrial processes.
It contains two alarms (six functions), sensor offset, configuration of parameters protected by password, USB communication, indication in degrees Celsius (°C) or Fahrenheit (°F), among others.

Display: LED display, 5-digits, red with 16 mm high digits.
Display range input signal: -1.999 to 30.000
Display range totalizer: 0 to 9.999.999.999 (alternating display)

Indicators: Ten red indicators for alarm status, communication, totalizer function, Min- and MAX-value.

°C, °F	ON, depending on temperature range
TX, RX, USB	ON, during communication via USB
A1, A2	ON, when alarm is active
TOT	ON, when displaying totalizer value
HIGH	ON, when most significant digit of totalizer is displayed
LOW	ON, when last significant digit of totalizer is displayed

Buttons: 4 buttons for programming and setup of set points.

Input range: Setup of input signal via buttons.
Thermocouples: Type J, K,T, N, R, S, B, E; internal cold junction
RTD: Pt100 in 3-wire connection (alpha = 0,00385)
Linear inputs: 0 V to 5/10 V, 0/4 mA to 20 mA, 0 mV to 50 mV

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

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

Resolution: Internal resolution with 65.535 steps (16 bits),
Display resolution 32.000 steps.

Measurement rate: 55 Hz with programmable digital filter.

Input impedance: Thermocouples, RTD, 0 to 50 mV: >10 MOhm;
0 to 5/10 V: >500 kOhm; 0/4 to 20 mA: 100 Ohm

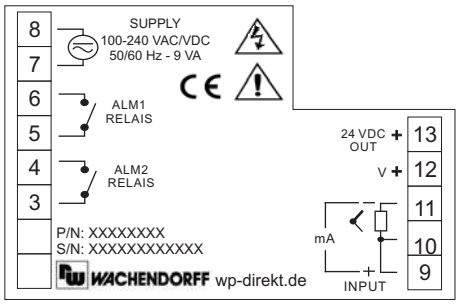
Excitation: 24 VDC +/-15 % @ 50 mA

Relay outputs: 2x Relay SPST, 1,5 A at 240 VAC / 30 VDC.

Serial communication: Mini-USB (virtual COM port).

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

Connections:



Protection: IP65 from the front (with rubber sealing), back side IP20.

Housing: Plastic case Polycarbonat (PC) L94-V2. Back panel ABS + PC UI94 V-0.

Dimensions: W 96 mm x H 48 mm x D 35 mm. Panel cut out: 93,0 x 45,5 mm. Mounting with plastic clamps.

Connection: Plug-in terminal blocks, 5 mm pitch.

Environmental conditions: Operating temeprature: 0 °C to +50 °C; relative humidity 80 % rF @ 30 °C, for temperature above 30 °C, reduction by 3 % rF for °C.

Package content: Panel meter, mounting material, rubber sealing, manual.

Order details	
Typ	**Order-No.**
Universal panel meter, 2 relay, 240 VAC	DA9602R0
Accessories USB programming cable. Softwaredownload under: http://www.wachendorff.de/wp/dpc_dow_epg_sof.html	KABUSB20

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