

Digital display for signal-input DSA 9648 – for panel-installation



- FOR STANDARDSIGNALS 0/4...20 mA OR 0...10 V
- INDICATING RANGE UND DECIMAL POINT FREE PROGRAMMABLE
- OPTIONAL WITH MAX. 4 OUTPUTS, SPDT RELAYS OR TRANSISTOR
- LED-DISPLAY, 14,2 mm
- DISPLAYRANGE $\pm 9999(0)$ DIGITS

DESCRIPTION

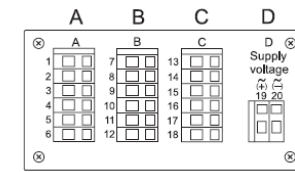
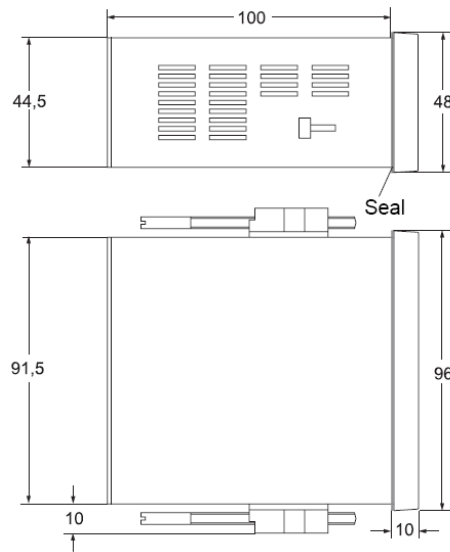
The digital display for signal-input DSA 9648 for panel-installation has been designed for standard signals 0/4...20 mA or 0...+10 V DC. The device offers an integrated transmitter supply for direct connection of 2- an 3 wire transmitters for e.g. pressure or temperature. The connection of potentiometers is possible as well. Indicating range and decimal point are free programmable in the range of ± 99990 (fixed zero selected).

TECHNICAL DATA

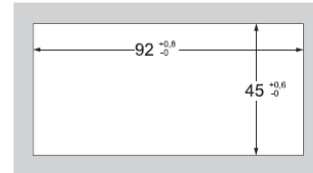
General information	
Device	Digital-display for signal-input DSA 9648
Application	Displaying of standard-signals for pressure, temperature, ...
Input	
Current input	0/4...20 mA; $R_i = 10 \Omega$
Voltage input	0...10 V DC; $R_i = <100 \text{ k} \Omega$
Potentiometer	0...1 k Ω /100 k Ω
Accuracy	$< 0,1\% \pm 2$ digit
Temperature coefficient	0,004%/K
Transmitter-supply	U_0 ca. 24V, R_i ca. 150 Ω , max. 50 mA (max. 25 mA at 4 relay-outputs)
Display	
Range	$\pm 9999(0)$ digit leading zero suppression
Parameter display	LED 2-digit red, 7 mm (parameter- and output indicator)
Output	
Relay	SPDT $< 250 \text{ V AC} < 250 \text{ VA} < 2\text{A}$, $< 300 \text{ V DC} < 50 \text{ VA} < 2 \text{ A}$
Transistor	max. 35 V AC/DC max. 100 mA, short circuit protected
Analog output	0/4...20 mA burden $\leq 500 \Omega$; 0/2...10V burden $> 500 \Omega$, isolated, automatic output changing (burden dependent)
Accuracy	0,1%; TK 0,01 %/K
Operating-conditions	
Operating temperature	-10...+55 °C
Auxiliary energy	
Supply voltage	230 V AC $\pm 10\%$; 115 V AC $\pm 10\%$; 24 V AC $\pm 10 \%$ or 24 V DC $\pm 15\%$
Power consumption	max. 2,5 VA, with analog output 5 VA
Rated voltage	250 V ~ acc. VDE 0110 between input/output/supply voltage degree of pollution 2, over-voltage categoric III
Test voltage	4 kV=, between input/output/supply voltage
CE-conformity	EN55022, EN60555, IEC61000-4-3/4/5/11/13
Design configuration	
Panel case	DIN 96x48 mm, material PA6-GF; UL94V-0
Dimensions	Front 96x48 mm, mounting depth 100mm
Weight	max. 390 g
Electrical connection	Clamp terminals, 2 mm ² single wire, 1,5 mm ² single wire, AWG14
protection	IP 65, terminals IP 20, fingersafe acc. German BGV A3

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DIMENSIONAL DRAWINGS



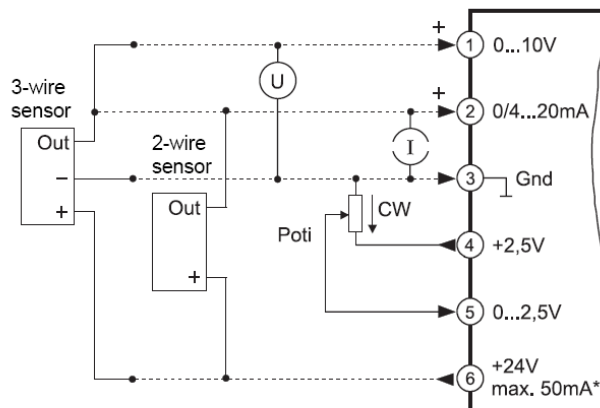
Terminal strip position



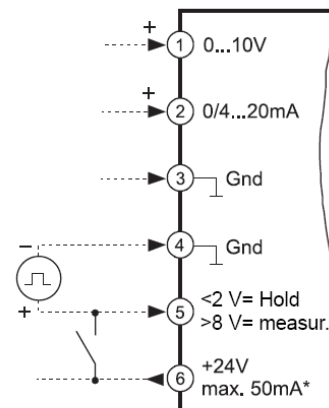
Panel cut-out acc. to
DIN 43700-96x48

ELECTRICAL CONNECTION

Terminal strip A

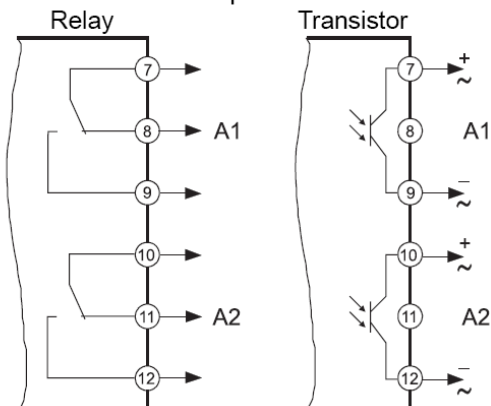


Option 14

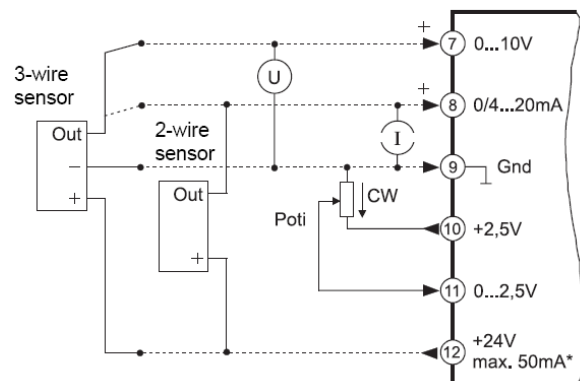


*Transmitter supply

Terminal strip B (varies with version) 2 alarm outputs

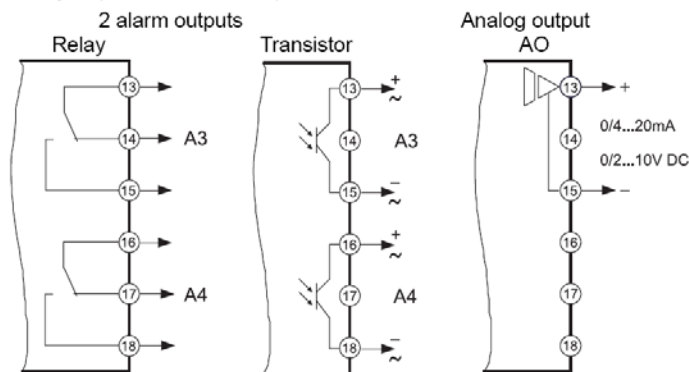


2. Standard signal input



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Terminal strip C (varies with version)



Terminal strip D supply voltage (varies with version)



ORDER INFORMATION

Eingang (Anschlussleiste A)	
1	Input standard signals 0/4 ... 20mA, 0 ... 10V DC and potentiometer, integrated transmitter-supply 24V DC max. 50mA
Ausgang (Anschlussleiste B)	
00	not installed
2R	2 alarm outputs Relais
2T	2 alarm outputs Transistor
S1	input standard signals 0/4 ... 20 mA, 0 ... 10 V DC and potentiometer, integrated transmitter-supply 24 V DC max. 50 mA
Ausgang (Anschlussleiste C)	
00	not installed
SR	2 alarm outputs Relais
ST	2 alarm outputs Transistor
A0	analog output 0/4 ... 20 mA or 0/2 ... 10 V DC, isolated
Hilfsenergie (Anschlussleiste D)	
0	230 V AC $\pm$ 10% 50-60Hz
1	115 V AC $\pm$ 10% 50-60Hz
4	24 V AC $\pm$ 10% 50-60Hz
5	24 V DC $\pm$ 15%
Optionen	
00	without option
01	Min- und Max-value hold
02	Difference-, average value, larger value, smaller value
07	Display brightness programmable
08	Analog output separately programmable in the display range
14	Input for ext. hold signal
19	Measuring interval 32ms (not available with all versions, please request)
Einheit	
	bitte als KLARTEXT angeben

DSA 9648

Our products are constantly in further development, therefore subjects to modifications.