

Digital display for signal input

DSA 1010 – for wall structure



FEATURES

- FOR STANDARD SIGNALS 0/4...20 mA AND 0...10 V
- SIMPLE INSTALLATION DUE TO WALL STRUCTURE WITH FIELD HOUSING
- DISPLAY RANGE AND DECIMAL POINT FREELY PROGRAMMABLE
- FIELD HOUSING WITH HINGED LID
- LED-DISPLAY, 14.2 mm
- OPTIONAL WITH 2 ALARM OUTPUTS, RELAY

DESCRIPTION

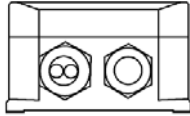
The DSA 1010 digital display for wall structures is suitable for 0/4...20 mA or 0...+10 V DC input signals. The measuring input is galvanically separated from the supply voltage. The transmitter supply allows direct connection of 2- and 3-wire transmitters, e.g. for pressure or temperature. Display range and decimal points are freely programmable within the digits ± 9999 . The fact that several parameters can be programmed allows universal application of the device.

TECHNICAL DATA

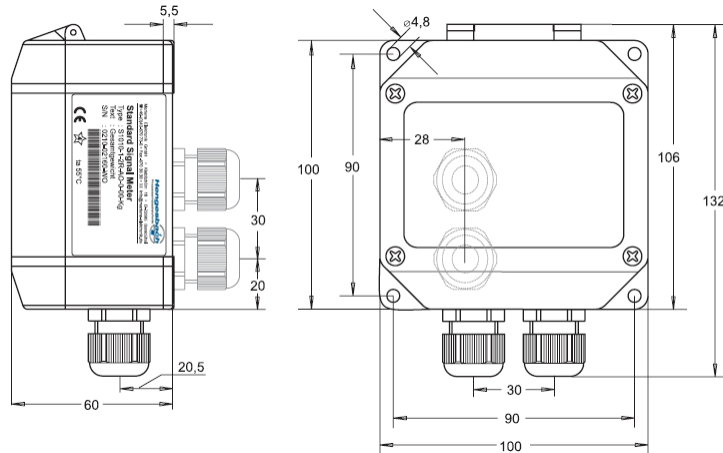
General information	
Device type	DSA 1010 digital display for wall structures
Applications	Display of standard signals
Input	
Current input	0/4...20 mA; $R_i = 10 \Omega$
Voltage input	0...10 V; $R_i = <100 \text{ k}\Omega$
Potentiometer	0...1 k Ω /100 k Ω
Basic accuracy	$< 0,1\% \pm 2 \text{ Digit}$
Temperature coefficient	0.004%/K
Transmitter supply	U_0 approx. 24V, R_i approx. 150 Ω , max. 50 mA (max. 25 mA at 4 relay outputs)
Display	
Display scope	$\pm 9999(0)$ digits with suppression of leading zeroes
Additional display	LED 2 digits, red, 7 mm (display for parameter and switching state)
Output	
Relay	Change-over contact $< 250 \text{ V AC} < 250 \text{ VA} < 2 \text{ A}$, $< 300 \text{ V DC} < 50 \text{ VA} < 2 \text{ A}$
Analog output	0/4...20 mA working resistance $\leq 500 \Omega$; 0/2...10V working resistance $> 500 \Omega$, No galvanic separation, output switches automatically (load-dependent)
Accuracy	0.1%; TK 0.01 %/K
Conditions for use	
Operation temperature	-20...+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 input	max. 3.5 VA
Rated voltage	250 V – according to VDE 0110 between input/output/auxiliary voltage, Overvoltage Category III
Test voltage	4 kV= between input/output/auxiliary voltage
CE conformity	EN55022, EN60555, IEC61000-4-3/4/5/11/13
Design configuration	
Housing	Glassfibre-reinforced polyamide PA6-GF 15/15 for wall structures
Dimensions	see dimensional drawing
Weight	max. 450 g
Connection	Spring-loaded clamps, 2 mm ² single wire, 1.5 mm ² single wire, AWG14
Type of protection	IP 65, clamps IP 20, contact protected according to BGV A3

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DIMENSIONAL DRAWING

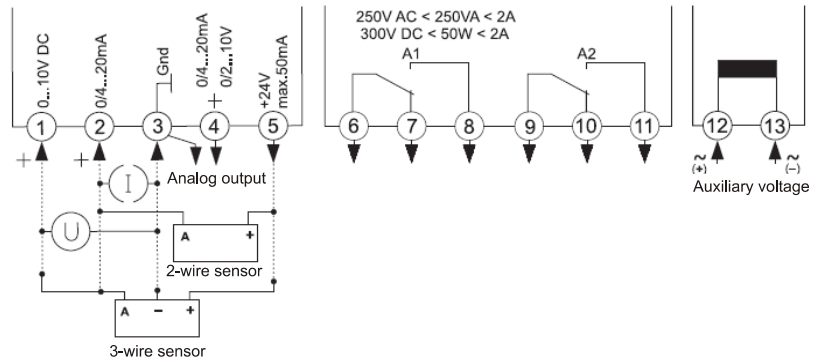


Option 09
1 x M20x1.5 Multi (2 x d=6mm)
1 x M20x1.5



2 x M16x1.5
(on request also in the base of the housing)

ELECTRICAL CONNECTION



ORDER INFORMATION

Signal input (terminal strip A)

1	Input for standard signals 0/4...20 mA and 0...10 V DC and potentiometer, integrated transmitter supply 24 V max. 50 mA
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Output signal (terminal strip B)

00	Not equipped
2R	2 alarm outputs relay

Output signal (terminal strip C)

00	Not equipped
A0	Analog output 0/4...20 mA or 0/2...10 V DC galvanically isolated

Auxiliary power (terminal strip D)

0	230 V AC ± 10% 50-60Hz
1	115 V AC ± 10% 50-60Hz
4	24 V AC ± 10% 50-60Hz
5	24 V DC ± 15%

Options

00	no option
01	Minimum and maximum value memory
07	Display brightness dimmable
08	Analogue output can be programmed independently of the display range
09	1 x M20x1.5 Multi (2 x Ø 6mm), 1 x M20x1,5

Unit

Please enter as PLAIN TEXT

DSA 1010

Our equipment is currently being developed, therefore we reserve the right to make amendments.