

Digital measuring instruments



4 and 5 digit, 96 x 24 mm and 48 x 24 mm
for direct current and direct voltage

Type:

**DSM 9624 N, DSM 9624 A/V, DSM 9624 C,
DSM 4824 N, DSM 4824 C**



Application

The digital measuring instruments DSM 9624 N, DSM 4824 N and DSM 9624 A/V are used for measuring direct current variables as well as for the indication of transformed non-electrical parameters. Types DSM 9624 C and DSM 4824 C are used for measuring at electrical shunts.



Function

The panel meters serve as 4-digit or 5-digit display for direct voltage or direct current signals and as visual limit monitoring via the display. Programming is done via three front keys. An integrated programming interlock prevents unrequested changes of the parameter and can be unlocked again via an individual code. The electrical connection is at the rear via plug-in terminals. Further selectable functions like the recall of the min./max.-value, a zero point slowdown, a direct change of the limit value in operating mode and additional measuring supporting points for linearization are integrated into the device.



Technical data

Types	DSM 9624 N, DSM 9624 A/V, DSM 9624 C, DSM 4824 N, DSM 4824 C
Display	LED seven-segment low-power, DSM 9624: height 14mm, red; DSM 4824: height 10mm, red N and C: 4 digit adjustable from -1999 to 9999 A/V: 5 digit adjustable from -19999 to 99999
Decimal points	adjustable
Measuring range	adjustable via appropriate connection the rear side
Polarity	by negative (-) display
Overflow	horizontal bars above
Underflow	horizontal bars below
Limit values	optical display flashing at exceedance or undershooting
Resolution	approx. 18 bit at 1 s measuring time
Measuring time	0,1 to 10 s
Measuring principle	U/F-conversion
Accuracy	0/4-20 mA, 0-10 V DC: 0,1 % of measuring range, ± 1 digit remaining measuring ranges: 0,5 % of measuring range, ± 1 digit
Temperature range	-20 °C to 0 °C to +50 °C to +80 °C
Temperature influence	100 ppm/K
Test voltage	auxiliary voltage 100-240 VAC and 230 VAC: 2,5 kV 24 VDC: 1 kV
Auxiliary voltage	DSM 4824 N and C 24 VDC $\pm 10\%$ (max. 1 VA) DSM 9624 N and C 4-stellig 230 VAC $\pm 10\%$ (max. 3 VA) ● Option 24 VDC $\pm 10\%$ (max. 1 VA) DSM 9624 A/V 5-digit 100-240 VAC 50/60 Hz, DC $\pm 10\%$ (max. 10 VA)
IP code	at the front IP65, rear side IP00
Connection	plug-in screw terminal, max. 2,5mm ²
Material	housing: PC polycarbonate, black sealing: EPDM, 65 shore, black
Installation	screw mounting



Price

Types	DSM 9624 N / DSM 9624 A/V / DSM 9624 C	DSM 4824 N / DSM 4824 C
Front panel (mm)	96 x 24	48 x 24
Housing (mm)	91,7 x 21,7	44,4 x 21,6
Cut-out (mm)	92 x 22,2	45 x 22,2
Installation depth (mm)	N and C max. 74; A/V max. 154	54
weight (kg)	N and C 0,15; A/V 0,25	0,1

Type DSM 9624 A/V	Measuring range selectable via connection	Display	Internal resistance
Direct current	±1 A	-19999 to 99999	0,2 Ω
Direct voltage	± 300 V	-19999 to 99999	1 MΩ

Type DSM 9624 N DSM 4824 N	Measuring range selectable via connection	Display	Internal resistance
Direct current	± 20 mA	-1999 to 9999	100 Ω
	4-20 mA	-1999 to 9999	100 Ω
Direct voltage	± 10 V	-1999 to 9999	200 kΩ

Type DSM 9624 C DSM 4824 C	Measuring range selectable via connection	Display	Internal resistance
Direct voltage	60 mV	-1999 to 9999	12 kΩ
at shunt resistor	150 mV	-1999 to 9999	30 kΩ

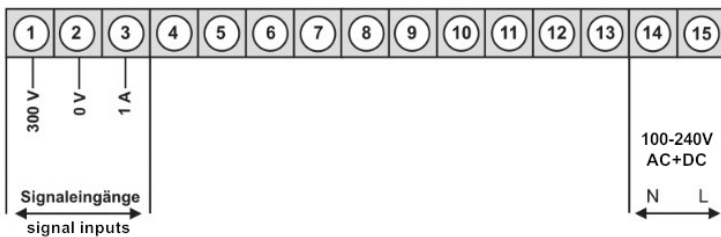
Type DSM 9624 A/V	auxiliary voltage 100-240 VAC	€ 293,00
Type DSM 9624 N	auxiliary voltage 230 VAC/24 VDC	€ 163,00 / 173,00
Type DSM 9624 C	auxiliary voltage 230 VAC/24 VDC	€ 190,00 / 200,00
Type DSM 4824 N	auxiliary voltage 24 VDC	€ 136,00
Type DSM 4824 C	auxiliary voltage 24 VDC	€ 163,00

Other measuring ranges on request.

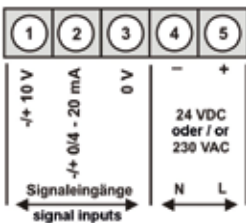


Connection

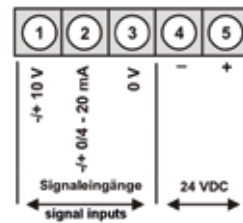
DSM 9624 A/V



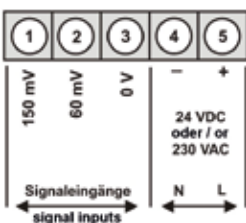
DSM 9624 N



DSM 4824 N



DSM 9624 C



DSM 4824 C

