

## Digital measuring instruments



4 digit, 96 x 24 mm and 48 x 24 mm  
for temperature and resistance

Type:

**DSM 9624 Pt, DSM 4824 Pt,  
DSM 9624 W, DSM 4824 W**



### Application

The digital measuring instruments DSM 9624 Pt and DSM 4824 Pt are used for measuring the temperature in connection with a resistance thermometer Pt 100. Types DSM 9624 W and DSM 4824 W are used for measuring resistances.



### Function

The panel meters serve as 4-digit display for Pt 100 sensor signals and resistance 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 e.g. the recall of the min./max.-value, a zero point slowdown, a direct change of the limit value in operating mode and an impedance matching up to 20 °C are integrated into the device.



### Technical data

Types	DSM 9624 Pt, DSM 9624 4824 Pt, DSM 9624 W, DSM 4824 W	
Display	LED seven-segment low-power, DSM 9624: height 14mm, red; DSM 4824: height 10mm, red	
Decimal points	adjustable	
Overflow	horizontal bars above	
Underflow	horizontal bars below	
Limit values	optical display flashing at exceedance or undershooting	
Resolution	Pt100: approx. 0,1 °C resistance: ca. 18 bit at 1 s measuring time	
Measuring time	0,1 to 10 s.	
Measuring principle	U/F-conversion	
Accuracy	Pt 100: 0,1 % of measuring range, +/- 1 digit resistance: 0,5 % of measuring range, +/- 1 digit	
Temperature range	-20 °C to 0 °C to +60 °C to +80 °C	
Temperature influence	100 ppm/K	
Test voltage	auxiliary voltage 230 VAC: 2,5 kV    24 VDC: 1 kV	
Auxiliary voltage	DSM 4824 Pt and W	24 VDC ± 10 % (max. 1 VA)
	DSM 9624 Pt and W	230 VAC ± 10 % (max. 3 VA)
	● Option	24 VDC ± 10 % (max. 1 VA)
IP code	at the front IP65, rear side IP00	
Connection	plug-in screw terminal, max. 2,5mm <sup>2</sup>	
Material	housing: PC polycarbonate, black sealing: EPDM, 65 shore, black	
Installation	screw mounting	



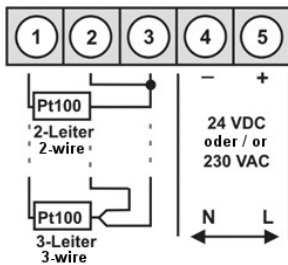
## Types and variants

Types	DSM 9624 Pt / DSM 9624 W	DSM 4824 Pt / DSM 4824 W
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)	74	54
Weight (kg)	0,15	0,1
Types DSM 9624 Pt DSM 4824 Pt	Measuring range	Display
Temperature measurement Pt 100	-200 °C to +850 °C	-19999 to 99999
Types DSM 9624 W DSM 4824 W	Measuring range	Display
Resistance measurement	2-wire	
	0-1 kΩ	-1999 to 9999
	0-10 kΩ	-1999 to 9999
	0-100 kΩ	-1999 to 9999
Resistance measurement	3-wire	
	>1 kΩ to <1000 kΩ	-1999 to 9999
Type DSM 9624 Pt	auxiliary voltage 230 VAC/24 VDC	
Type DSM 9624 W	auxiliary voltage 230 VAC/24 VDC	
Type DSM 4824 Pt	auxiliary voltage 24 VDC	
Type DSM 4824 W	auxiliary voltage 24 VDC	

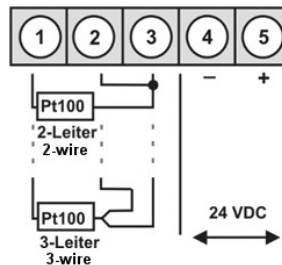


## Connection

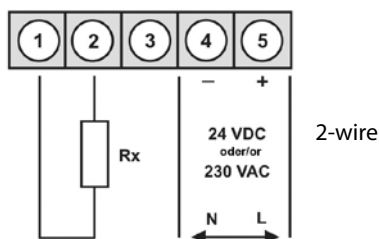
**DSM 9624 Pt**



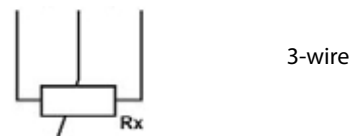
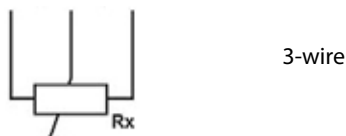
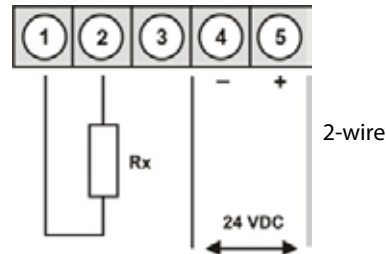
**DSM 4824 Pt**



**DSM 9624 W**



**DSM 4824 W**



(In case of order please specify 2-wire or 3-wire!)

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