

## General description

### Application

Digital panel meters are used for the display and monitoring of various measuring signals in heavy-current and weak-current technique as well as different process variables. Our digital measuring instruments may directly be used for current, voltage, frequency, resistance or temperature measurements.

Furthermore, a measured value may be displayed in a switch room over larger distances using an upstream measuring transducer. Digital indicators may be applied everywhere where increased accuracy is required and reading errors are to be avoided.

### Type and function

The digital measuring instruments are distinguished by 4-digit and 5-digit types according to their display capacity. In case of a 4-digit display, the largest presentable value is 9999, in case of a 5-digit display that value is 99999.

The values are shown in a 7-segment LED display. The front panel may be marked in a customer-specific or order-specific manner. Also, the zero point may be elevated or suppressed. A maximum of two limit values may be monitored, the minimum and maximum measured value may be stored and displayed. Decimal points, dark switching of the last digit, zero point as well as display range may be changed after removing the front panel.

### Special features

DSM 96

- high accuracy of up to 0.1 % +/- 1 digit of measured value
- auxiliary voltages for 230 V AC, 24 V DC, 36-265 V or 6-30 V AC + DC are available
- 4 kV test voltage between measuring input and all available auxiliary voltages

DSM 9624 und DSM 4824

- high accuracy of up to 0.1 % +/- 1 digit of measured value
- min.-/max.-value recording
- adjustable support points
- display flashing at limit value exceedance/undershooting
- tara-function

### Technical data

General data	EMC	DIN EN 61 326
	(for DC auxiliary voltage and multi voltage)	DIN EN 61 326 class A
	Mechanical strength	DIN EN 61 010 part 1
	Electrical safety	DIN EN 61 010 part 1 housing insulated, protection class II, DSM 96 <ul style="list-style-type: none"> <li>● for working voltages up to 300 V (phase to neutral) pollution degree 2, measurement category CAT III</li> <li>● or working voltages up to 600 V (phase to neutral) pollution degree 2, measurement category CAT III</li> </ul> DSM 9624 auxiliary voltage 100-240 V AC and 230 V AC <ul style="list-style-type: none"> <li>● for working voltages up to 300 V (phase to neutral) pollution degree 2, measurement category CAT III</li> </ul> DSM 9624/4824 auxiliary voltage 24 V DC <ul style="list-style-type: none"> <li>● for working voltages up to 100 V (phase to neutral) pollution degree 2, measurement category CAT II</li> </ul>
	Isolation	DIN EN 61 010 part 1, 3,7 kV 50 Hz, 10 s
	Air and creep distances	DIN EN 61 010 part 1
	Protection level	DIN EN 60 529, housing IP 50, terminals IP 10

### Test report

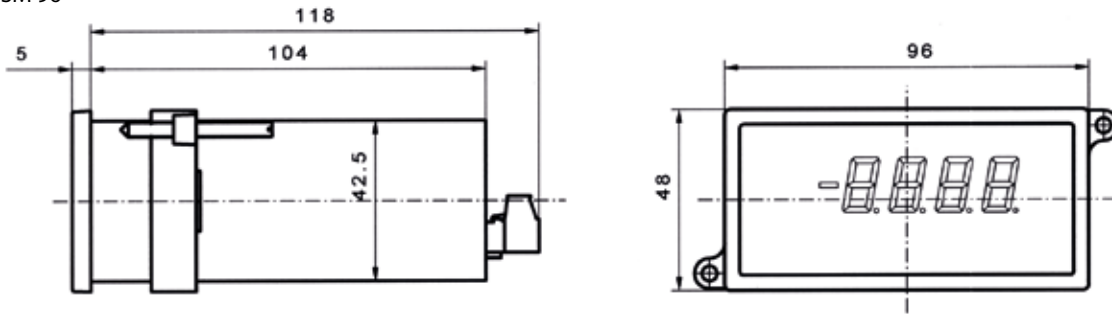
Up to 10 testpoints (depending on type)



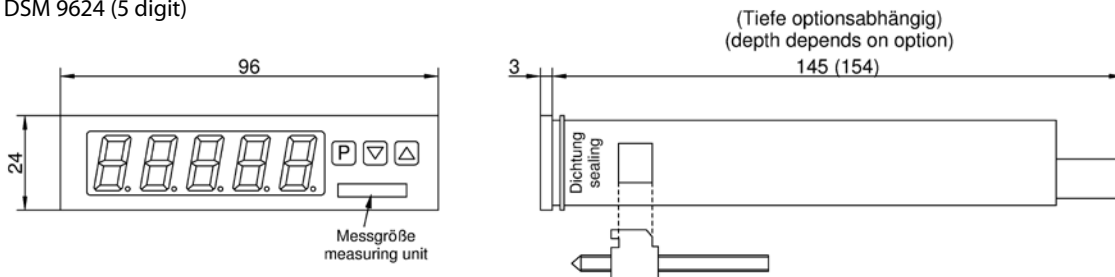
## Dimensions

for digital panel meters

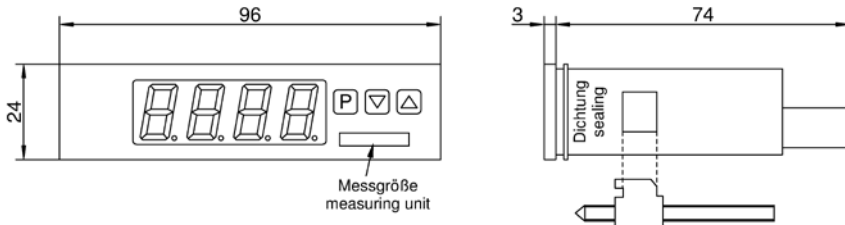
DSM 96



DSM 9624 (5 digit)



DSM 9624 (4 digit)



DSM 4824



Dimensions in brackets for DC version!