



Also available in black.
Please specify separately.

Digital measuring instruments

4-digit, 96 x 48 mm
for frequency

Type:
DSMF 96



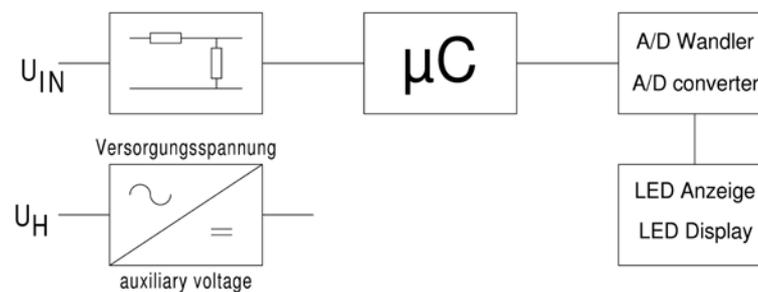
Application

The digital measuring instrument DSMF 96 is used for measuring the frequency of alternating voltage as well as for the measurement of the pulsed direct voltage signals.



Function

The measurand passes via resistors to a pulse shaper and then to a 4-digit A/D converter. The conversion is made following the „Dual Slope“ principle. The values are indicated by 7-segment low-power LED displays. A hold function may be achieved by connecting two ports. The zero point compensation is done automatically. Decimal points, dark switching of the last digit, zero point as well as display range may be changed after removing the front panel.



Technical data

Display	LED seven-segment low-power, height 13mm, red; 4-digit
Decimal points	adjustable on front panel using DIP switch
Dark switching	of last digit, on front panel using DIP switch
Overflow	by negative (-) display
Resolution	maximum display +/- 9999 digit
Sampling rate	approx. 3 measurements per second
Measuring principle	Dual Slope integration
Accuracy	$\pm 0,5\%$ of measured value +/- 2 digit for arbitrary waveform
Hold function	by connecting terminals 1 + 4
Temperature range	-15 °C to +20 °C to +30 °C to +55 °C
Temperature influence	< 0,05 % at 10 K
Overload capacity	voltage 10-fold, max. 850 V, current 10-fold up to 20 mA, above 2-fold
Test voltage	4 kV between measuring input and auxiliary voltage
IP code	Housing IP 50, terminals IP 10
Connection	plug-in 12-pin terminal block, screw terminal max. 2,5 mm ²
Auxiliary voltage	
Standard	230 V AC $\pm 20\%$, 45-65 Hz, 3 VA
Options	24 V DC, -15 % to +25 %, 2,5 W 6-30 V AC + DC or 36-265 V AC + DC, 2,5 VA



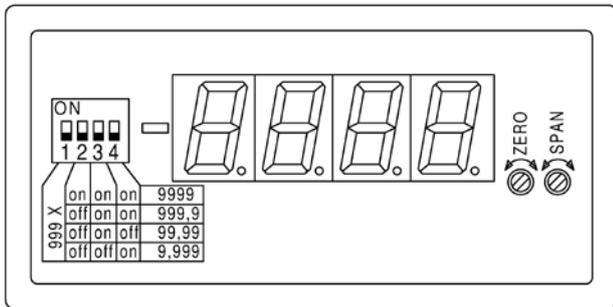
Types and variants

Types	DSMF 96 4-digit			
Front panel (mm)	96 x 48			
Housing (mm)	90 x 42,5			
Cut-out (mm)	92 x 45			
Installation depth (mm)	118			
weight (kg)	0,35			
Type of current	Measuring range	Display	Measuring voltage	Internal resistance
Alternating voltage or pulsed direct voltage	0 - 1000 Hz	0 - 999,9 Hz	5 - 50 V	50 k Ω
	0 - 1000 Hz	0 - 999,9 Hz	50 - 500 V	500 k Ω
Surcharges	Outside of standard series			
	Different measuring unit (e.g. mm/h)			
Auxiliary voltage	24 V DC			
	6-30 V AC + DC			
	36-265 V AC + DC			



Connection

Front view
(without front panel)



Rear view

