

SMC 3

Handheld measuring device for vibrating wire transducer



The vibrating wire measuring unit SMC 3 is a portable and battery powered device for transducers working on the vibrating wire principle. The low-cost readout unit has been developed for the field work and can be used for ordinary measuring tasks respectively as second instrument for adjustment and control purposes. With the SMC 3 the vibrating wire frequencies of a transducer are measured. A technically extensive protection and filter circuit ensures an optimal measurement. On the LCD the vibrating wire readings can be displayed as counting value, neutral value, frequency or linear value. Furthermore the resistance and the temperature of the sensor can be measured and displayed. A built-in test wire is used for a quick functional control of the instrument. For the acoustic control of the vibrating wire an earphone can be connected at the upper side of the device. The actual battery voltage is also indicated on the LCD.

Benefits

- Simple handling
- Mains independent
- Small weight
- Illuminated display
- Display of temperature

Functions

Display mode as counting value, neutral value, frequency, linear value
Measured values normal/inverted
Resistance of transducer
Measured values of control wire

Technical data

Dimension:	9.5x19x4 cm
Weight:	2.5 kg
Language:	German
Measuring range (frequency):	0.5...3.5 kHz
Resistance:	0...2200 Ω
Inducing impulse:	60 V / 1 ms
Measuring error (transducer-dependent):	0.05...0.1%
Resolution (transducer-dependent):	0.01 μ (counting value) 1 Unit (neutral value) 0.01 Hz (frequency) 0.01 Hz ² (linear value)
Display:	Matrix display
Ear receiver connection:	high impedant
Operating temperature range:	-10...+60 °C
Accu capacity:	1500 mAh
Operating time with one accu charged:	
- Background illumination on:	10 hours, thereafter without background illumination at least 4 hours operation possible
- Background illumination off:	> 80 hours
Protection type:	IP 65