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# VIBRATING WIRE READOUT

## Model MB-6T and MB-6TL

### APPLICATIONS

The MB-6T is a portable, battery operated readout unit designed to read vibrating wire gauges and thermistors.

### DESCRIPTION

#### MB-6T – Standard version

The MB-6T is an easy-to-use readout that provides fast and accurate readings. Its LCD display presents a maximum of information including output signal period, linear or frequency reading, gauge temperature, thermistor's ohm value, gauge factor and type.

In addition, battery voltage may be displayed as well as a warning message when power level is low. When power reaches a critically low level, the readout automatically shuts off to avoid battery damage.

The unit is ready to be used in the field, even in harsh environments, thanks to its splashproof case, sealed front panel, connector caps and optional internal heating element.

Its auto-control test and bad signal quality detector restrict erroneous data display. All sockets are protected against voltage surges.

#### MB-6TL – Datalogger version

In addition to the above features, the MB-6TL offers powerful datalogging functions. Its 128 kB of static RAM can store over 4000 data sets.

The unit is easy to use: the operator selects a gauge, connects it to the readout and records a reading by a single flick of a switch. One may also view previously recorded data for comparison and validation.

The MB-6TL is supplied with the PC compatible MBTALK software. This software allows easy transfer of data and configurations, editing and logging in formats compatible with programs such as Word™, Excel™ and Lotus 1-2-3™.



Model MB-6T

### FEATURES

#### MB-6T

- High accuracy and reliability
- Usable in harsh environments
- LCD with backlight
- Long battery life
- OHM mode for field troubleshooting

#### MB-6TL

- Stores over 4000 data sets
- Data sets and configuration easily transferred/edited on a computer
- Internal software in user-upgradeable flash ROM through RS-232 serial link
- MSHA-approved version available

## SPECIFICATIONS

MODEL	MB-6T	MB-6TL
Display	Liquid crystal, 2 lines, 20 characters each, with selectable backlight	Liquid crystal, 4 lines, 20 characters each, with selectable backlight
Memory		RAM: 128 kB static RAM Storage: 4000 data sets Gauge ID.: 8-character user defined
Communication		RS-232, 9600 baud, 8-bit word Without parity, 1 stop bit Transmission format: ASCII
Internal clock		Accuracy: 30 seconds per month
Range	Vibrating wire: 180 to 2300 $\mu$ s, 435 to 5600 Hz Temperature: $-40$ to $+170^{\circ}\text{C}$ (3k $\Omega$ thermistor) Resistance: 0 to 100 k $\Omega$	
Excitation mode	Sine wave	
Displayed resolution	Wire: 0.01 $\mu$ s (normal), 0.01 units (linear), 0.01 Hz (frequency) Temperature: $0.1^{\circ}\text{C}$ ( $0.1^{\circ}\text{F}$ ) Resistance: 0.1% of F.S.	
Pre-programmed thermistor type	2, 3 and 10 k $\Omega$	
Battery	12 VDC, 2.3 Ah., rechargeable, charger included	
Battery life (typical)	20 hours of continuous operation (10 hours with back light activated)	
Operating temperature	$-5$ to $+45^{\circ}\text{C}$	
Storage temperature	$-30$ to $+55^{\circ}\text{C}$	
Dimensions	15 x 15 x 25 cm	
Weight	3.1 kg	

## OPTIONS

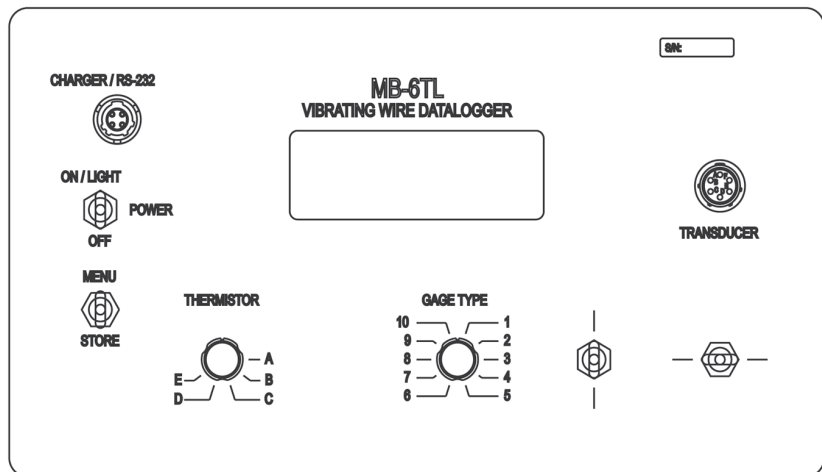
- Internal heating element
- Insulated carrying case
- MSHA approved MB-6TL version (U.S. Mine Safety and Health Administration)
- Connector caps

## ORDERING INFORMATION

Unit includes jumper cables, carrying case and MBTALK software (with the MB-6TL only)

Please specify:

- Model
- Line voltage for battery charger (110 or 220 VAC)
- Options



MB-6TL front panel