

WITT SMM 200



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Application

WITT SMM 200 is a mobile device to determine the setting/hollow position for up to 5 sleepers. The result is displayed in a LCD and the data is stored internally for subsequent evaluation.

Description

Up to 5 sensors are placed on the sleepers to be evaluated and connected to the device. After the initialization of the device it is in stand-by mode and will wait for a train passage. The setting of each sleeper will be measured as the maximum deviation in the vertical axis in relation to the rest position.

The display always shows the measured maximum of the vertical displacement since the last power on. By pressing the reset button the display can be set to zero and the device is ready for another measurement.

The data is stored internally and can be transferred subsequently via an USB interface and can be evaluated.

Function

WITT SMM 200 calculates from potentiometric voltage values the displacement with an accuracy of 0.1 mm (internally 0.01 mm).

The basis for the sensor mounting is a 40 cm long chisel fixed in the gravel bed. The sensor mounting can be very quickly positioned via a one-button fixture on the respective sleeper.

The up to five sensors are individually calibrated and linked with the device via connectors which are associated with a sensor to prevent mix ups. The standard length of the cable is 4 m; other cable lengths are available on demand.

General Data

| | |
|---|---|
| Weight | approx. 10 kg basic system, 1 sensor and charger |
| Dimensions housing | approx. 10 kg for 2. Case with 4 additional sensors |
| Span | 220 x 130 x 75 mm |
| Degree of protection according to IEC 34 | 150 – 280 mm in relation to chisel position |
| Temperature range | IP65 |
| Speed range | - 20 to 55°C |
| Measurement frequency (movement of the sleeper) | 40 to 230 km/h |
| Measurement range of sensor | 3 Hz – 40 Hz |
| Resolution of display | up to 20mm |
| Accuracy | 0,1mm |
| Supply | ±1% |
| Charger | internal battery 12VDC, uptime >8h 230 VAC |

Interfaces

| | |
|----------------|--|
| Data interface | USB |
| Connection | Output and charger via lockable universal plug relay |

Configuration



