

LRM®XXI Recorder



Purpose:

LRM®XXI Recorder is used to convert analog signals collected by the Measuring Head (MH) into digital data for visualization, as well as data collected by the encoder (RI), such as length, direction and speed of MRT inspection. **LRM®XXI Recorder** is used to change the sensitivity settings of the MH sensor and provide the necessary power supply for active circuits of connected MRT Equipment.

Features:

- Maximum of 6 LF channels. For standard MH types, 2 LF channels are in use (LF amplitude speed compensation is implemented for all LF channels).
- One LMA channel.
- Build-in memory up to 8km of MRT data (used as a backup).
- Additional power buttons on the side of the recorder housing - enable to start the recorder without opening the lid.
- LCD screen to display inspection length, speed and available memory for data storage with backlight.
- Buttons sections:
 - Sensitivity settings of MH sensors and change of recorder status.
 - LMA positioning.



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— LED indicators:

- Recorder and WiFi connection Power ON.
- Operating mode Length/Time, Status of Recorder and LMA position.
- Battery charge indicator with automatic low charge indication.

— Dedicated magnetic holders, mounted on the back of the recorder, allowing the recorder to be placed to steel structures.

— Mounting holder under the lid for Xbee WiFi module and USB flash drive.

Operating temperature range:

— From -25°C up to 55°C.

Connection types:

- 1,5m USB-A/M8 connection cable.
- Wireless connection provided via XBee USB module:
 - Standard range of up to 150m in open space.
 - Extended range up to 2000m in open space on request.

Power Supply:

- 7.4V Li-ion battery pack.
- 24h continuous battery operation.
- Possibility to remove the battery for air transport.
- Dedicated 8.4V charger for Li-ion packages.
- **LRM®XXI Recorder's** possibility to work during charging.

Design:

- IP Rating for all components is minimum IP67
- Durable against mechanical damage, environmental and chemical factors.
- PCB Boards build-in heavy-duty, waterproof plastic cases.

Dimensions & Weights:

- Dimensions:
 - Length: 216mm.
 - Height: 85mm.
 - Width: 180mm.
- Weight: — Net weight: 1,55kg.
- Gross weight (with battery): 1,85kg.

Operation with LRM®XXI Recorder diagnostic system:

- Measuring Head types: Compatible with all types of **Measuring Heads (MH)**
- Encoder types: Compatible with all types of encoders **LRM®RI-s, LRM®RI-1, LRM®RI-2** (ability to operate in "Time Mode", without encoder).
- Connection cables: Compatible with all types of **LRM®CA** connection cables with lengths from 0.5m to 60m.