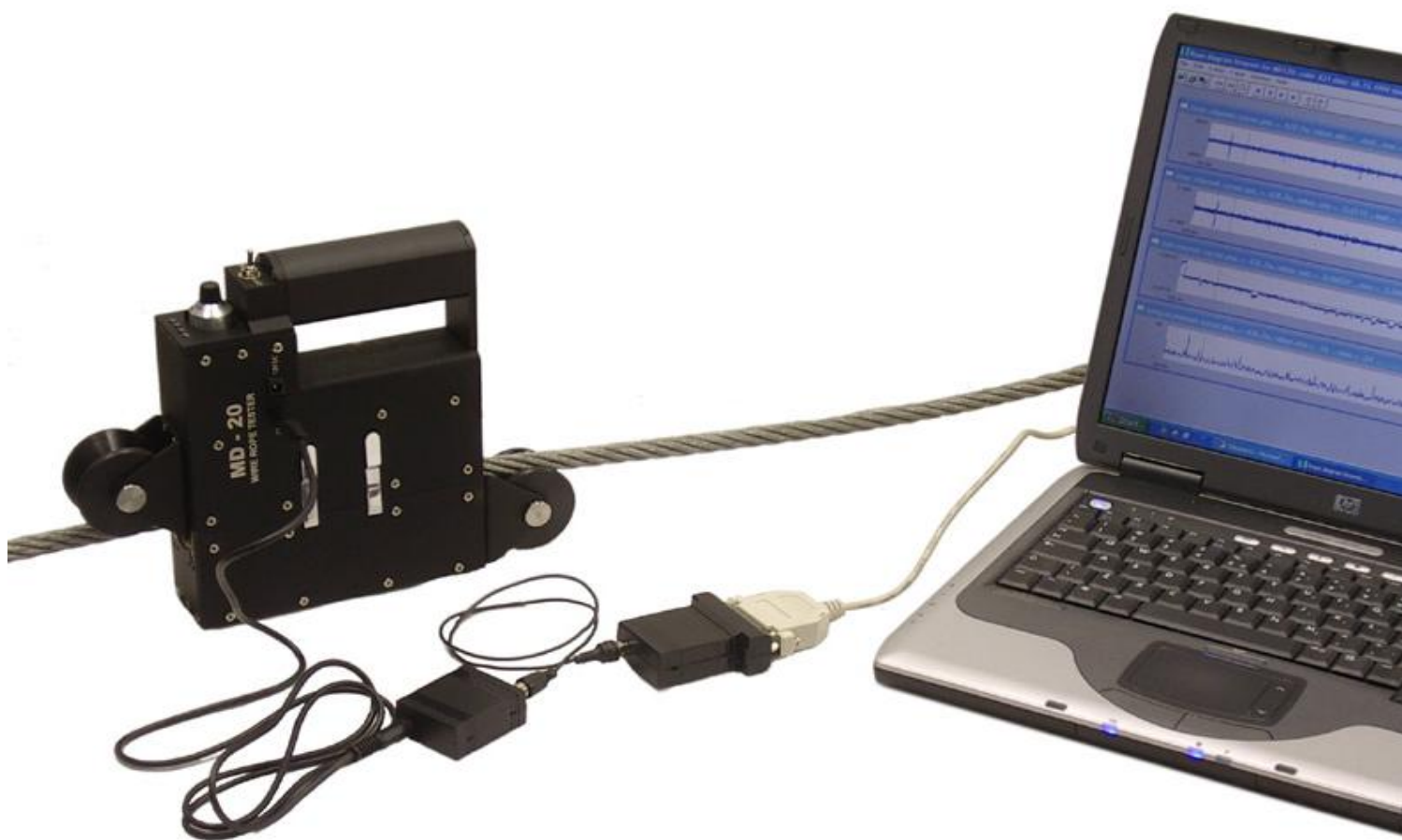


***MDNV / MDNV-USB  
PC Recording Set  
for MD-2\* / 2\*H Wire Rope Testers***



# MDNV / MDNV-USB Digital Adapter with Data Logger Software

for analogue data acquisition in digital form in a personal computer

PC Recording Sets for MD-series Wire Rope Testers are products that are intended to record signal runs onto computer hard drive and visualize signal traces on a computer display. The set consist of two products: **MDNV** or **MDNV-USB** Digital Adapter with its Data Logger Software to record signal on a PC HD and **MD120PRE** or **MDIPlotter**, specific software browser to visualize signals on computer display.

## MDNV / MDNV-USB Digital Adapter

An analogue/digital converter and interface unit for data transfer in digital form to a PC parallel (printer) port or PC USB port

### Specifications

**MDNV 1-Channel** (intended for MD-2\*)  
 INPUT ANALOGUE SIGNAL RANGE: max +/- 2.5 V  
 RESOLUTION: 10 bits  
 SAMPLE RATE: 2.5.ms  
 POWER: non regulated 12-14 V dc 50 mA  
 (from standard power supply of Testers)

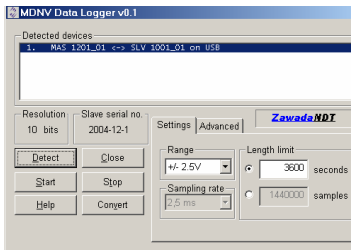
### MDNV-USB 2-Channel (for MD-2\*H)

**LD Ch.** max +/- 2.0 V; **LMA Ch.** 0 to + 0.5 V  
 12 bits  
 0.5; 1; 2.5 ms or 1; 2.5 mm of rope length  
 supplied from PC USB port

### PC System requirements

PC PORT AVAILABLE: USB or PARALLEL PORT (printer port)  
 OS: Windows 8/7/2000/ XP/98  
 HD SPACE AVAILABLE: 6 MB for programs + 200 kB / minute of recording  
 COMPATIBLE SOFTWARE: **MD120PRE**

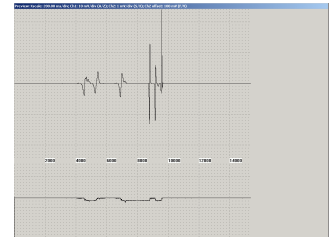
USB  
 Windows 8/7/2000/ XP  
 6 MB for programs + 1.6 MB / 1000 m of wire rope under test or 1000 s of recording  
**MDIPlotter**



## MDNV Data Logger Software

A hardware specific software intended to use with MDNV or MDNV-USB Digital Adapter.

Software creates binary file on a computer disk that can be further browsed with a browser. Specific binary file can be also converted by the software to coma-separated-values type text file.



Virtual data logger console to control data flow from sensor of MD-2X Tester to personal computer.

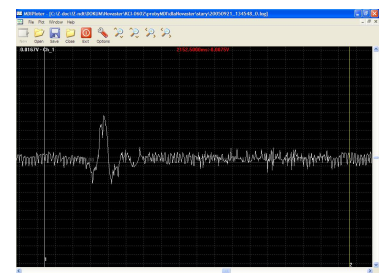
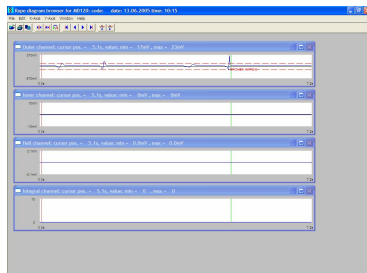
Real-time signal visualisation is available.

## Software browser

A specific software intended to use as an extension for Wire Rope Tester or GP test head.

**MD120PRE Software** Browser for analogue signals of sensors of wire rope testers or heads, digitalized and recorded by MDNV 1-Channel Adapter or MD120 Wire Rope Defectograph

**MDIPlotter** Browser for analogue signals of sensors of wire rope testers or heads, digitalized and recorded by MDNV-USB 2-Channel Adapter



Sensor of wire rope tester or test head generates uniform noise signal if the wire rope is uniform. Broken wire or other defect generates pulse in LD sensor signal. Its magnitude and shape depends on defect dimensions. Distributed loss of steel is reflected by change of LMA channel signal level. Program converts specific binary file created by MDNV and shows signal trace on computer screen. The trace or its selected part can be shifted, zoomed, etc. Signal value can be measured on mouse click and user can type annotations on the trace.

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