

## digiPHONE<sup>+</sup>2

### Shock wave receiver for acoustic and electromagnetic fault location



- Acoustic-magnetic cable fault location
- Highest acoustic noise immunity
- Automatic filtering of interference signals
- Automatic adjustment of all parameters, no adjustment necessary
- Optional: Bluetooth® headphones
- Optional: voltage gradient method (NT Set)
- Optional: cable tracing (NTRX Set)

# digiPHONE<sup>+</sup>2

#### DESCRIPTION

The new digiPHONE<sup>+</sup>2. A combination of different methods for efficient noise damping enables perfect acoustics that lets you hear only the fault noise.

#### The technologies of the digiPHONE<sup>+</sup>2 series:

##### BNR – Background Noise Reduction

New, intelligent BNR technology with filtering and background noise suppression produces an undisturbed acoustic experience, only sending the fault sound to your ears.

##### APM – Automatic Proximity Mute

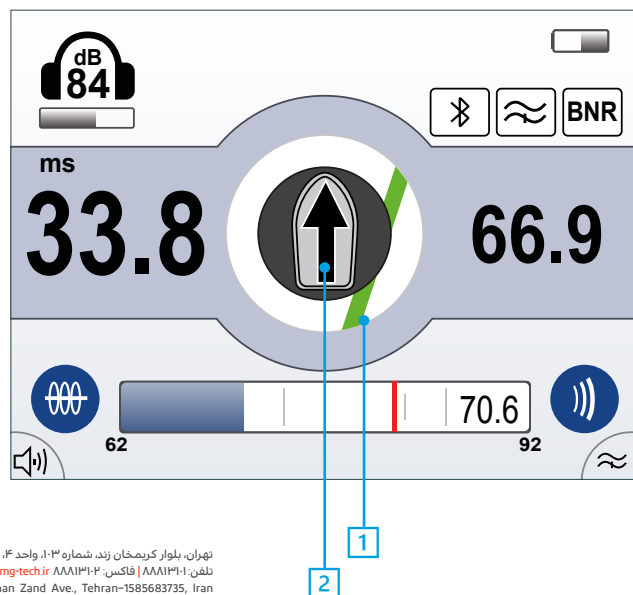
When the sensor handle is approached, the sound stops, before the hand touches the handle – no cracking, no banging. After the sensor has been put down again, a short delay ensures that the digiPHONE<sup>+</sup>2 sensor is standing stable and possible mechanical oscillations have ceased, before the headset is activated.

#### Cable compass

The cable compass **1** for visualisation of the route keeps the user safely on the cable. The compass (green line) not only indicates whether you are left or right of the cable, but also in which angle the cable runs to the sensor.

#### Fault arrow

The fault arrow **2** indicates in which direction the fault is present. The fault distance can optionally be defined in milliseconds, meters or feet.



## digiPHONE<sup>+</sup>2 NT Set digiPHONE<sup>+</sup>2 plus ESG earth rods



### Advanced functions of the digiPHONE<sup>+</sup>2 NT set

This set, along with acoustic-magnetic cable fault location, allows the location of cable sheath faults using the voltage gradient method.

- Automatic suppression of external potentials
- Automatic adaptation to the measuring voltage
- Automatic detection of the pulse
- Automatic zero point adjustment
- Measurement sensitivity in  $\mu\text{V}$  range
- Cable fastening on the divisible, insulated earth rod

Bluetooth® headphones included in the set

## digiPHONE<sup>+</sup>2 NTRX Set digiPHONE<sup>+</sup>2, plus ESG earth rods and Ferrolux receiver



### Advanced functions of the digiPHONE<sup>+</sup>2 NTRX set

As well as the functions of the NT set, this set enables the use of routing and expert cable tracing.

- Cable compass for determining the cable position
- Continuous display of the laying depth and amperage
- Current direction detection
- Frequency scan
- Lightweight sensor (900 g)
- Probe mode
- Optional:  
Audio frequency generators 12 W, 50 W, 200 W

Bluetooth® headphones included in the set



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## TECHNICAL DATA

### Control unit

|                        |   |
|------------------------|---|
| Display unit           | TFT colour display, 320 x 240 pixel   |
| Power supply           | 6 x 1.5 V battery   |
| Measured value memory  | 99 measurement series with 99 measuring points  |
| Interfaces             | Bluetooth® for pairing with GPS receiver and headphones<br>Connection socket for Ferrolux Rx sensor or digiPHONE*2<br>4 mm sockets for earth probes |
| Operating time         | > 15 Std.   |
| Protection class       | IP 54   |
| Dimensions (H x W x D) | 65 x 225 x 100 mm   |
| Weight                 | 0.9 kg (incl. batteries)  |

### Ground microphone (digiPHONE\*2 type)

|                     |                                  |
|---------------------|----------------------------------|
| Safety              | Acoustic limitation to 84 dB (A) |
| Gain                | > 120 dB                         |
| Dimensions          | Diameter 230 mm, height 140 mm   |
| Carrying bar length | 450 ... 750 mm (adjustable)      |
| Weight              | 2.2 kg (incl. telescopic handle) |
| Dynamic range       | Acoustic channel > 110 dB        |
| Protection class    | IP 65                            |

### Earth rods (ESG NT)

|                            |                               |
|----------------------------|-------------------------------|
| Sensitivity                | 5 µV ... 200 V                |
| Noise suppression          | 50/60 Hz, 16 2/3 Hz, DC       |
| Zero point adjustment      | Automatic                     |
| Clock recognition          | Automatic                     |
| Length earth rods          | 1 m (divisible and insulated) |
| Weight earth rods          | per 0.8 kg                    |
| Length of connecting cable | 2 m                           |

### Ferrolux Rx - Audio frequency receiver

|                              |  |
|------------------------------|--|
| Receiving frequencies        | 50 Hz, 60 Hz, 100 Hz, 120 Hz, 480 Hz, 491 Hz, 512 Hz, 640 Hz, 982 Hz, 1090 Hz, 1450 Hz, 8440 Hz, 9800 Hz, 9820 Hz, 32768 Hz<br>Radio (15 kHz ... 23 kHz), 32768 Hz |
| Dynamic range                | 120 dB   |
| Sensitivity                  | 5 µA @ 1 m (33 kHz)  |
| Maximum depth                | Line: 7 m<br>Probe: 15 m   |
| Depth accuracy               | Line 5% 0.1 ... 2 m<br>Probe 5% 0.1 ... 5 m  |
| Current measurement accuracy | 10%  |
| Dimensions                   | 730 x 100 x 45 mm  |
| Operating temperature        | -20 ... +55 °C   |
| Storage temperature          | -30 ... +70 °C   |
| Protection class             | IP 54  |

## ORDER INFORMATION

| Description   | Order No. |
|---|-----------|
| <b>digiPHONE*2</b><br>Includes: digiPHONE*2 display unit, digiPHONE*2 sensor unit, connection cable, telescopic handle, measuring tip 18 mm, measuring tip 75 mm, tripod, base plate, base plate with bitumen, sensor cable, stereo headphones, 6 pcs. battery 1.5 V, transport bag, insert for transport bag | 1013124   |
| <b>digiPHONE*2 NT Set</b><br>digiPHONE*2 plus additional:<br>2 pcs. earth rods, 2 pcs. contact sponges for earth rods, additional bag for earth rods, 2 m test lead (red with angled plug), 2 m test lead (black with angled plug), headphones Sennheiser HD 450BT Black (Bluetooth® & ANC)                   | 1013126   |
| <b>digiPHONE*2 NTRX Set</b><br>digiPHONE*2 NT Set plus additional:<br>sensor unit Ferrolux® IFS, Ferrolux® IFS connection cable for display unit  | 1013168   |
| <b>Options:</b>   |           |
| Headphones Sennheiser HD 450BT Black (Bluetooth® & ANC) <sup>1)</sup>   | 90033686  |
| Wall holder display unit digiPHONE*2  | 118303215 |
| Wall holder sensor unit digiPHONE*2   | 118303214 |
| Floor holder sensor unit digiPHONE*2  | 118303237 |
| Measuring tip 300 mm for digiPHONE*2  | 890026254 |
| Measuring tip 130 mm for digiPHONE*2  | 899006926 |
| Wall holder earth rods for NT set   | 898722056 |
| Floor holder earth rods for NT set  | 128309944 |
| Two pcs. contact sponges for earth rods for NT set  | 128308944 |
| Readout antenna for cable identification Ferrolux® IFA for NTRX Set   | 1011682   |
| Insert battery compartment for 9 V block (Li-Ion)   | 90023868  |
| <b>Recommended signal generators for NTRX Set:</b>  |           |
| Ferrolux® FLG12, audio frequency generator 12 W   | 1012522   |
| Ferrolux® FLG50, audio frequency generator 50 W   | 1012965   |

<sup>1)</sup> included in NT Set and NTRX Set

### SALES OFFICE

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### DIGIPHONE-PLUS-2\_DS\_EN\_V01c

www.megger.com  
ISO 9001  
The word 'Megger' is a registered trademark

# Megger<sup>®</sup>

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