digiPHONE+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)

DESCRIPTION

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

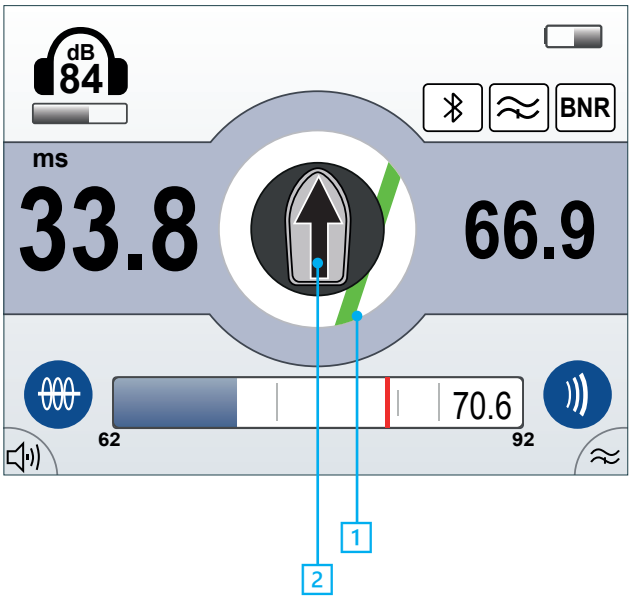
The technologies of the digiPHONE+2 series:

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+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+2 NT Set
digiPHONE+2 plus ESG earth rods



Advanced functions of the digiPHONE+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 µV range**
- **Cable fastening on the divisible, insulated earth rod**

Bluetooth® headphones included in the set

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digiPHONE+2 NTRX Set
digiPHONE+2, plus ESG earth rods and Ferrolux receiver



Advanced functions of the digiPHONE+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

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 Connection socket for Ferrolux Rx sensor or digiPHONE⁺2 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 Radio (15 kHz … 23 kHz), 32768 Hz
Dynamic range	120 dB
Sensitivity	5 µA @ 1 m (33 kHz)
Maximum depth	Line: 7 m Probe: 15 m
Depth accuracy	Line 5% 0.1 ... 2 m 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.
digiPHONE⁺2 Includes: digiPHONE⁺2 display unit, digiPHONE⁺2 sensor unit, sensorcable, telescopic handle, measuring tip 18 mm, measuring tip 75 mm, tripod, base plate, base plate with bitumen, stereo headphones, 6 pcs. battery 1.5 V, transport bag, insert for transport bag	1013124
digiPHONE⁺2 NT Set digiPHONE⁺2 plus additional: 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 (Bluetooth® & ANC)	1013126
digiPHONE⁺2 NTRX Set digiPHONE⁺2 NT Set plus additional: sensor unit Ferrolux® IFS, Ferrolux® IFS connection cable for display unit	1013168
Options:	
Headphones Sennheiser (Bluetooth® & ANC) [1)]	90044694
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
Recommended signal generators for NTRX Set:	
Ferrolux® FLG12, audio frequency generator 12 W	1012522
Ferrolux® FLG50, audio frequency generator 50 W	1012965

[1)] included in NT Set and NTRX Set

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