



Datasheet



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sebaKMT UK

Now certified to comply with European
Standards

EN 61010

EG - Konformitätserklärung

EC - Declaration of Conformity

CE - Déclaration de Conformité

EZ-THUMP™

Model 2 & 3



“See the Fault”
***The location of
fault is displayed***

Power
500 Joule
Operation

Option !
***Live Trace for
Fault Verification***

SMART FAULT LOCATION TOOL

....push 2 buttons, never adjust anything !

Technical Specifications **EZ-THUMP™**

The EZ-THUMP is a compact & light weight, battery and or AC mains operated fault locating system for primary URD cables. It is ideally suited for use in a “satellite” fault locating concept for out-laying areas with a lesser fault frequency, when speed, simple operation , weight and economics are the driving factors. Unit requires no adjustments and is operated via “Yes”/“NO” push buttons.

Energy / Voltage Output

500Joules @ 12kV

or 500 Joules @ 4kV

DC Hipot Output

voltage is adjustable 0kV – 12kV

or 0kV – 4kV

includes indication of Breakdown Voltage

Measuring Range:

up to 25,000 ft

Fault Locating Method

-TDR Mode to determine end of cable

-Arc Reflection Method to get distance to fault
4kV **or** 12 kV pulse

Fault Distance Accuracy:

< 2.5 feet depending on displayed range

Pinpointing Method

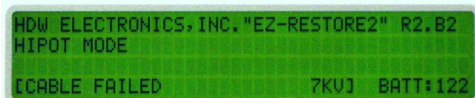
Adjustable thump voltage up to 4kV

or up to 12kV

<10 second thumping cycle

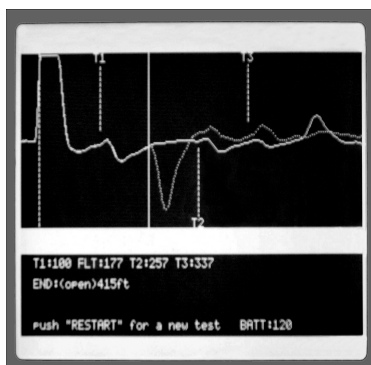
Display Screen:

EZ Model 2 4 x 40 Alpha Numeric LCD



HDW ELECTRONICS, INC. "EZ-RESTORE2" R2.B2
HIPOT MODE
[CABLE FAILED] 7KV] BATT:122

EZ Model 3 320 x 240 Graphic LCD



Convenience Features:

- Pre-locate and Pinpoint using only one tool
- Computer controlled automatic fault locating procedure
- Unit is operated via push buttons
- No special operator training required

Safety Features:

- Operator always in full control of HV output
- “Emergency Off” Red button will safely discharge and power unit off
- Key Switch Interlock
- Auto “Time out” discharges and grounds unit and resets it to “Ready position”

Power Supply:

Internal 12V Battery 10 AH (full charge will last for 30 minutes of pinpointing – thumping)

External 110/230V AC Charger to 12VDC
3 LED charging indication

Outdoor Suitability

Rugged design, weather proof
High impact resistant PP enclosure
Stainless steel lid and hardware
Operating Temperature:

-20 °C + 50 °C (-5 °F to 122°F)

Leads / Terminations

4.6m HV cable MC Con. & Hotline Clamp
HV return with Hotline Clamp,
4.6m Ground Cable with Hotline Clamp

Dimensions: 36cm x 28cm x 53cm

Weight: 32kilo (70lbs)

Options

- Cart available
- Lead adapters available

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sebaKMT





Silence



Silence

Careful handling, night work and filtering was yesterday

Today we have a new definition of silence

The innovation in fault pinpointing

Several new, innovative methods of the **digiPHONE+** will ensure the silence



The technology that lets you hear the fault – only the fault!

No traffic!

No high heels!

No talking!

No noise!

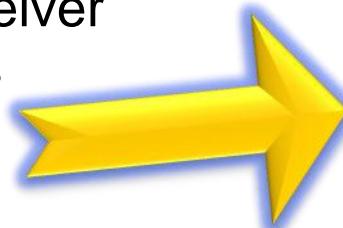
You hear only what you want to hear,

- **- “THE” Fault! Nothing else! Your ears will like it!**



Features

- Highest acoustic quality and external noise immunity
- Automatic Volume Mute with „Bang protection“
- Bright, sun capable display
- Easiest Operation
- Ergonomical, adjustable telescopic handle
- Distance measurement in Milli seconds or meters
- Selectable volume limitation to 84 dB(A)
- Easy tracing with left – right indication
- Fault direction indication
- Automatic adjustment for magnetic and acoustic channel
- Weather proof IP65 Sensor, better IP54 receiver
- High ground stability of the sensor up to 45°
- And...New, high performance connectors!



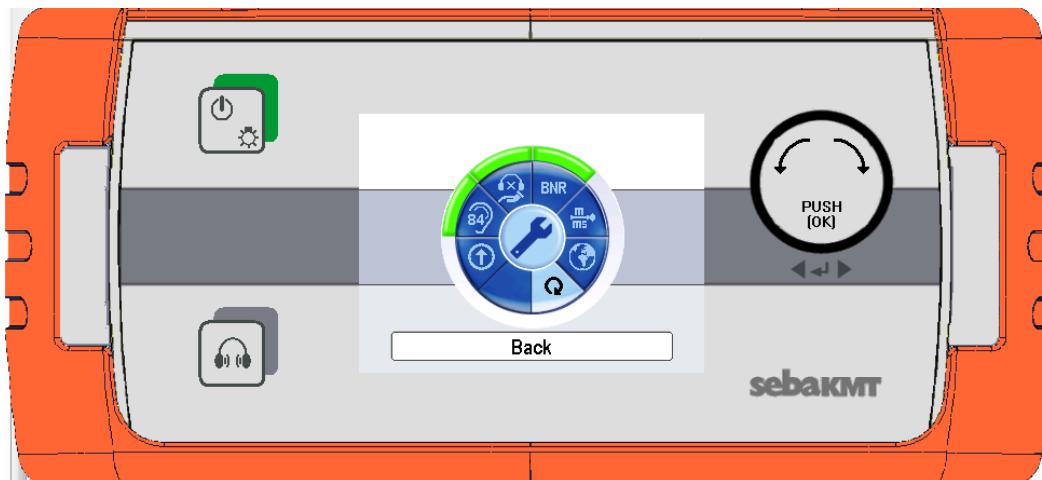


Operation

Like most new Sebakmt systems, the new **digiPHONE+** is operated by the in the centrix approved jogdial philosophy.

The required possible adjustments are limited to the minimum and need in most cases only once to be adjusted.

But even, if the adjustments need to be changed more frequently, the very Straight forward menue stucture supports an easy navigation





Noise and Ear protection

The **digiPHONE+** is a pinpointing device, which is generally based on the detection and evaluation of the noises, that result for the flashover at the fault position.

Resulting several new technologies for sound resp. for the reduction of of sound or noise were used.

BNR – Background Noise Reduction

APM – Auto Proximity Mute

A noise reducing construction of the microphone housing

Adjustable filters

84 dB limiter (according to noise and vibration protection laws)

A completely new, soft suspended sound pickup

An easy detachable handle

Explanations will follow!





Noise reduction

With the new **digiPHONE+**, a new noise reduction technology, the BNR (Background Noise Reduction) was developed

This technology reduces by a specific averaging process the flashover noise to its primary contents.

Disturbing noises disappear and leave an astonishingly clear sound.

The housing itself reduces the body sound significantly by a combination of different composite materials and a free suspension of the microphone

It at all, the noise will come through only very weak

**BNR**



Bang protection, Automatic Mute

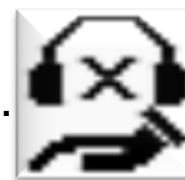
One of the most annoying problems with all ground microphones is the extreme noise during pickup or setting down of the microphone (Bang).

Automatic Proximity Mute - APM.

The second silent technology of the new Digiphone+.

Get close to the handle and it turns the volume off. No crack or bang. Just off, before the hand even reaches the handle.

After removing the hand, a short time delay ensures that The Sensor has really settled itself into the new position, and any mechanical oscillations have disappeared, before the sound comes back on.



For uses, that want to control this still by themselves, there is still the alternative Mute key on the front panel (in the competitive evaluation, the only key beside the power key!)





Working Safety

Research with the previous Digiphone, but also competitive units showed, That in some cases, due to specific exposure to noise, the risk of a hearing loss exists.

The permitted noise exposure is regulated by different local laws or regulations, for example the „Occupational Safety and Health Standards” in the USA

1910.95(c)(1) The employer shall administer a continuing, effective hearing conservation program, as described in paragraphs (c) through (o) of this section, whenever employee noise exposures equal or exceed an 8-hour time-weighted average sound level (TWA) of **85 decibels** measured on the A scale (slow response) or, equivalently, a dose of fifty percent. For purposes of the hearing conservation program, employee noise exposures shall be computed in accordance with appendix A and Table G-16a, and without regard to any attenuation provided by the use of personal protective equipment.

When exceeding the permitted 85 db(A) the weekly permitted exposition duration, at least in compliance with the German noise and vibration protection laws, is in the range of only a few minutes!



Working safety

By a selectable limitation of the maximum permissible noise level to 84 db(A), the use can now safely comply With the according limiting regulations



But here it should also be clear, that a permanent wearing of the headset is not essentially required.

In many cases it is absolutely sufficient, to trust the display and to check occasionally or only during the final pinpointing the acoustic response of the fault.



Filter

The audial reception of each uses is subjective and also habitually oriented. The various filter adjustment are also a help to find the setting which suit the specific personal audial reception.

Additionally the selectable filter setting are also comparable with existing sound images as the are typical for specific ground microphones as for example The T 16/841, but also for competitive unists.

Whatever decides the setting of the filters,

- the **digiPHONE+** will guide the user reliably to the fault!





The System

The **digiPHONE+** System consists of:

- the Receiver
- the Sensor
- and the Headset





Sensor

Adjustable handle

Exchangeable tips

Active Elektronik – the evaluation happens completely in the sensor!

Housing: Dual shell die casting with telescopic handle

Soft rubber rims for acoustic shielding

Dimensions: Diameter 230mm (at the outer lip)

Height: 140mm

Handle length: 450 ... 750mm

Weight: Sensor mit Teleskopstab ca. 2 kg

Dynamic range: acoustic channel >110dB

Dynamic range: magnetic channel >110dB

Frequency range: 100 ... 1500Hz

4 Filter settings: OFF 100 ... 1500Hz

Low pass 100 ... 400Hz

Band pass 300 ... 500Hz

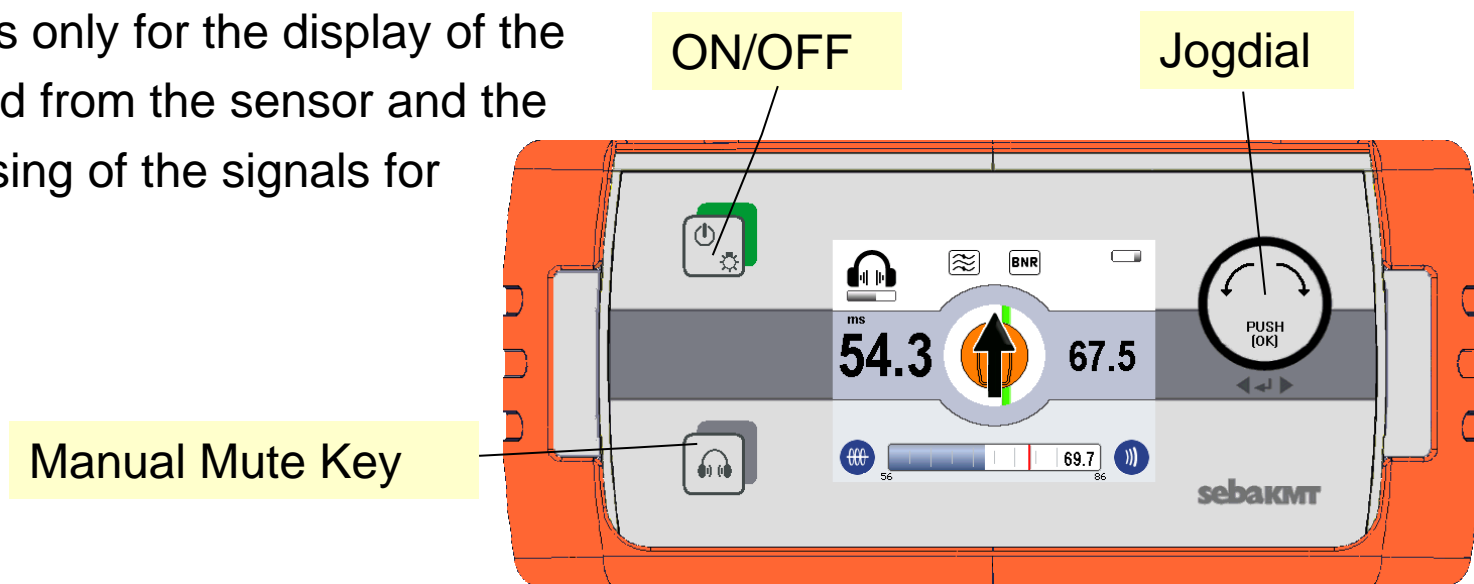
High pass 700 ... 1500Hz





Receiver

The receiver is only for the display of the data generated from the sensor and the signal processing of the signals for the head set.



Dimensions (with rubber frame): 65 mm x 225 mm x 100mm (H x W x D)

Weight: app. 1kg (incl. Batteries)

Supply: 6 pieces Mignon cells Typ IEC R6 (Alkali-Mangan)

Operation time: @ Mignon cells with 2500 mAh capacity: > 10 Std.

Display: Color TFT - 320x240Pixel

Adjustment: Selectable limitation to 84 dB(A), Volume

Akustic Gain: >120dB

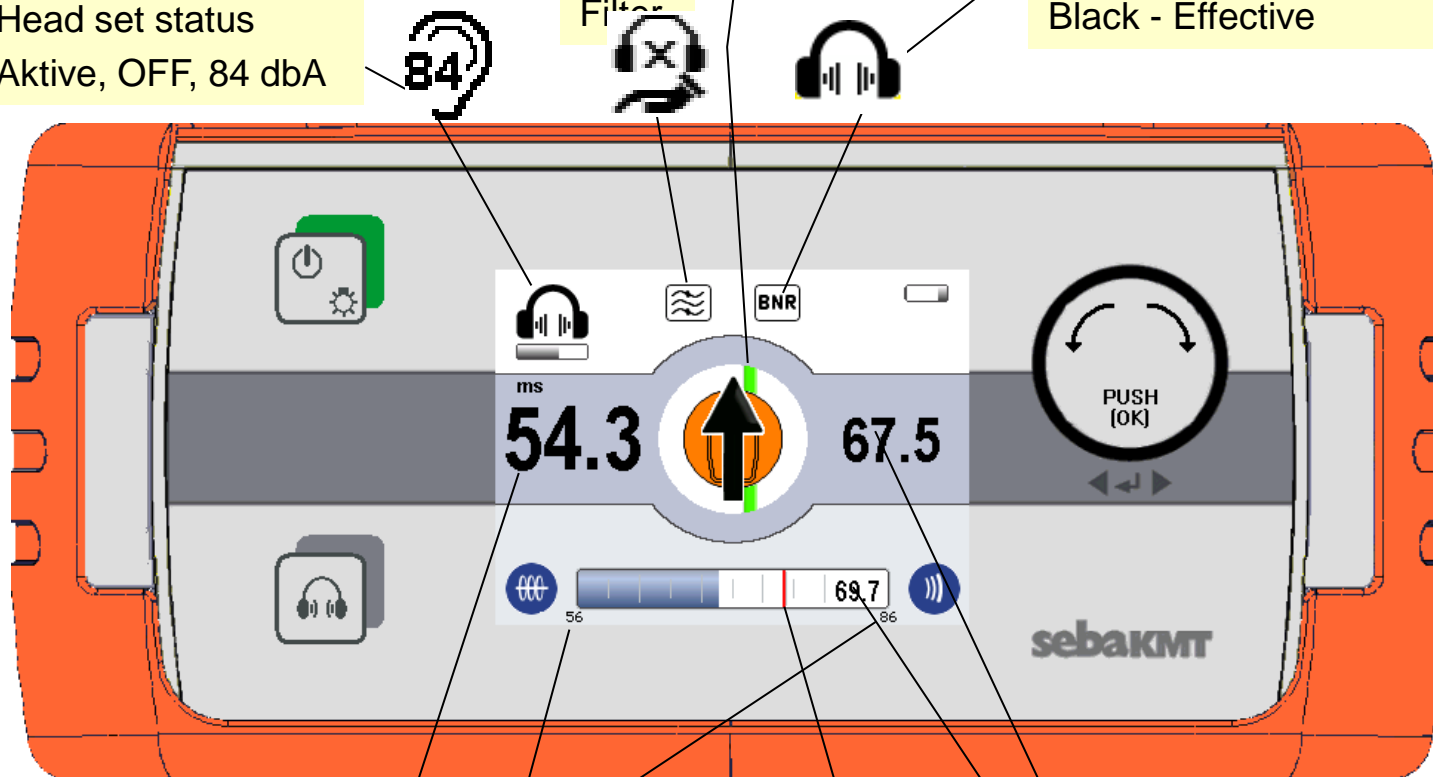


Display elements

Head set status
Aktive, OFF, 84 dbA

Cable position
below Sensor

Background Noise Reduction
Grey - Aktive, but not effective
Black - Effective



Aktual Difference value

Last difference value

Level magnetic channel

Bargraph autoscale

Peak hold magnetic channel

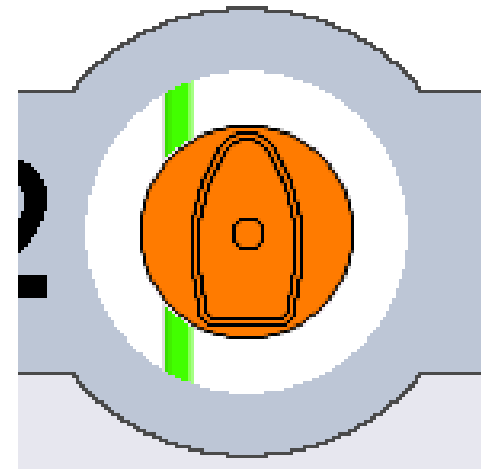
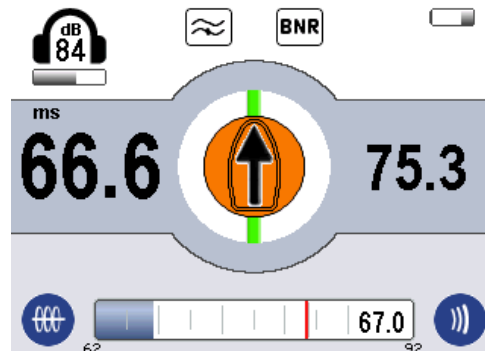


Tracing

A green cable symbol beneath the sensor symbol in the center of the **digiPHONE+** display shows the side position of the sensor in relation to the cable trace.

This ensures automatically, that the user remains with the sensor directly on top of the cable, which makes the fault location more accurate but also easier. Weak faults are much faster detected and located.

A cross measurement is not required, since the system is positioned automatically in the Y-axis on top of the cable





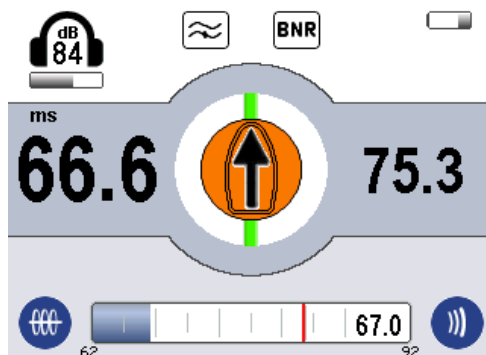
The Compass

The „Compass“ function of the **digiPHONE+** recognises from the data, especially from the difference time measurement, if the user is moving towards the fault. This is indicated by the arrow in the display. The user follows the arrow and approaches automatically the fault position

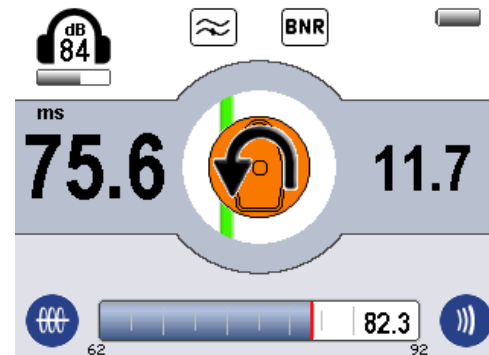


If the **digiPHONE+** detects an increase of the difference time, it means, that the user has passed the fault already. In this case a bent arrow indicates this and requests the user to move backward.

Before the fault:
The new value is lower than the old difference value



After the fault:
The new value is higher than the old difference value





Competiton

The Digiphone (released 1993), as well as its predecessor T 16/8B were the benchmark and handicap for ALL competitors.

Resulting we oriented ourself on these data, but lifted the benchmark in respect to functionality, acoustic, quality and appearance to a new level! The **digiPHONE+** is again the trend setter for the pinpointing which sets And defines clear limits
... The technical data reflect this only limited.

Test it ! Let you customer experience and hear the new **digiPHONE+**

The plain data as in the following comparison table mean very little!

**We are supporting you to deliver
a world class service, every day,
in every sector...**

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