SUNBELT RENTALS

Datasheet

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digiPHONE+
Surge wave receiver

- **For acoustic and electromagnetic fault pinpointing**
- **Perfect acoustic quality and noise immunity**
- **Automatic mute function to protect your ears**
- **Bright, transflective sun readable display**
- **Easy handling with automatic adjustment**
- **Earphone volume limitation to 84 dB(A)**

DESCRIPTION

The new digiPHONE+, the new definition of silence!
An innovation for cable fault pinpointing!

A combination of different technologies efficiently suppress noise to provide you with perfect acoustic performance, passing only the fault sound.

- No traffic!
- No high heels!
- No talking!

You hear only the fault, nothing else – Your ears will love it!

The technologies of the digiPHONE+:

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
The second silent technology in the new digiPHONE+: as soon as one approaches the handle, the sound switches off before the hand touches it, no more cracks or bangs. After removing the hand, a short delay ensures that the digiPHONE+ sensor is standing stable and possible mechanical oscillations have ceased, before the headset is activated.

Housing
The new housing concept of the sensor in connection with a floating microphone suspension reduces the body sound of the sensor itself and provides a stable base for the digiPHONE+ sensor, even on sloped surfaces.

Tracing
The left-right indication keeps the operator on top of the cable, and a compass indicates the fault direction. Distance to the fault can be displayed in meters/feet.

Megger

TECHNICAL DATA*

Receiver DPP-CU

Display	TFT-colour display, 320 x 240 Pixel
Safety	Volume limitation to 84 dB (A)
Gain	> 120 dB, automatic
Supply	6 x LR6 Alkali-Mangan batteries
Operation time	> 10 hrs.
Protection rating	IP 54
Dimensions (H x W x D)	65 x 225 x 100 mm
Weight	0.9 kg (incl. batteries)

Sensor DPP-SU

Dimensions	Diameter 230 mm (outer rim)
Height	140 mm
Handle length	480 ... 750 mm adjustable
Weight	2.2 kg (incl. batteries and handle)
Dynamic range	Magnetic channel > 110 dB
	Acoustic channel > 110 dB
Frequency range	100 ... 1500 Hz
Filter stages OFF	100 ... 1500 Hz
Low pass	100 ... 400 Hz
Band pass	150 ... 600 Hz
High pass	200 ... 1500 Hz
Protection rating	IP 65

Fully automatic trigger level adjustment for acoustic as well as for magnetic channel
Intelligent noise suppression (Background Noise Reduction)
Automatic headset mute function during the handling of the sensor (Automatic Proximity Mute)

ALL ADVANTAGES AT A GLANCE

- Easiest operation
- Automatic adjustment of values
- BNR – Background Noise Reduction
- APM – Auto Proximity Mute when approaching the handle ("Bang" protection)
- Bright, sun readable display
- 84 dB(A) limiter (according to noise and vibration protection laws, e.g. "OSHA")
- Distance measurement in milliseconds or meter/feet
- Easy tracing with left–right indicator
- "Compass" for fault direction indication
- High ground stability of the sensor up to 45°

ORDERING INFORMATION

Product	Order no.
digiPHONE+ Display unit, sensor unit, telescope handle, connection lead, measuring tip 18 mm, measuring tip 75 mm, tripod, ground plate, headphones, soft carry bag with mold insert, batteries (6 pcs)	1003316-S
Options:	
Wall mount for display unit	118303215
Wall mount for sensor unit digiPHONE+ (NT)	118303214
Floor mount for sensor unit digiPHONE+ (NT)	118303237
Measuring tip 300 mm	890026254
Measuring tip 130 mm	899006926

* We reserve the right to make technical changes.

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sebaKMT

seba KMT

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,

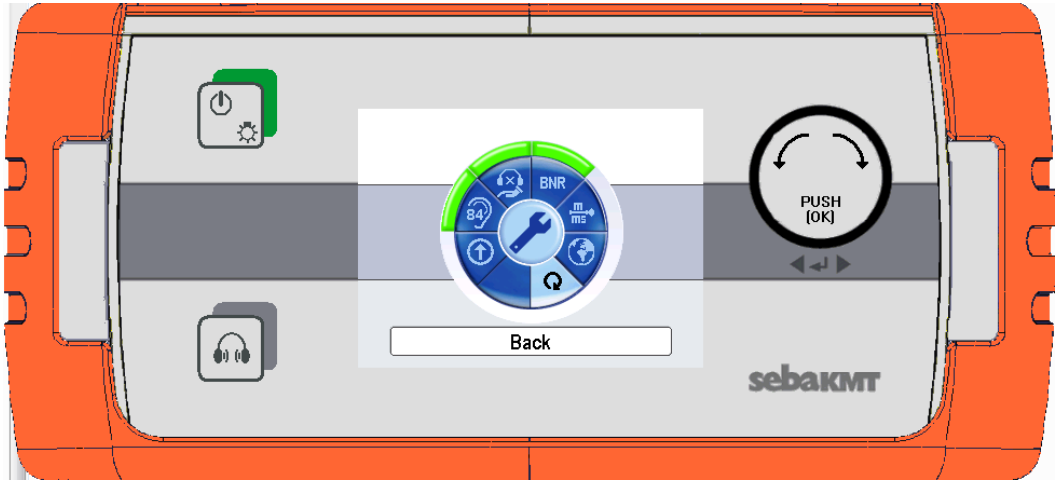
- **- “THE” Fault! Nothing else! Your ears will like it!**

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 philosopy.
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 averageing 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

Bang protection, Automatic Mute

One of the most annoying problems with all ground microphones is the extereme 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

Resarch 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 permittable 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

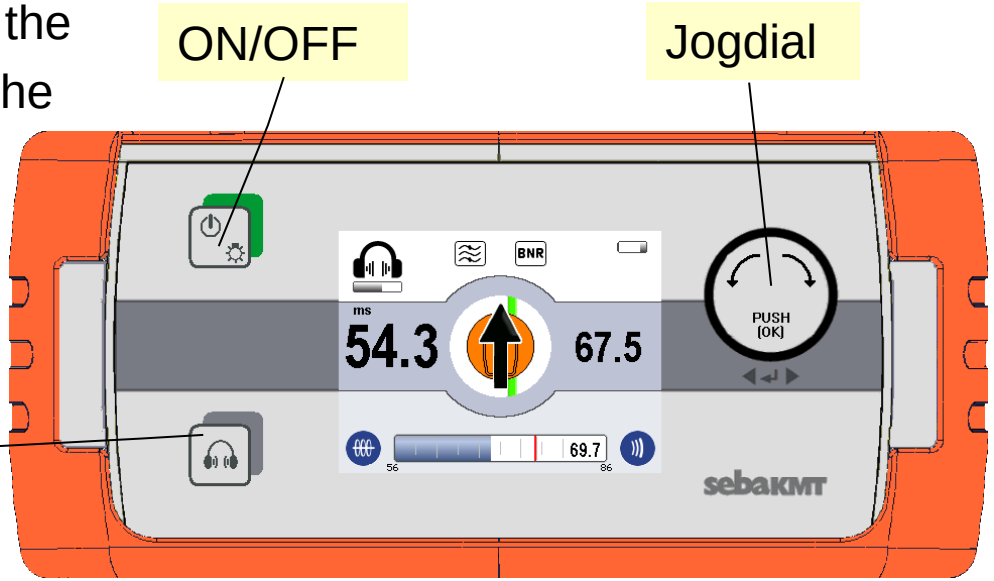
Exchangeable tips

Active Elektronic – 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 cellsTyp 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

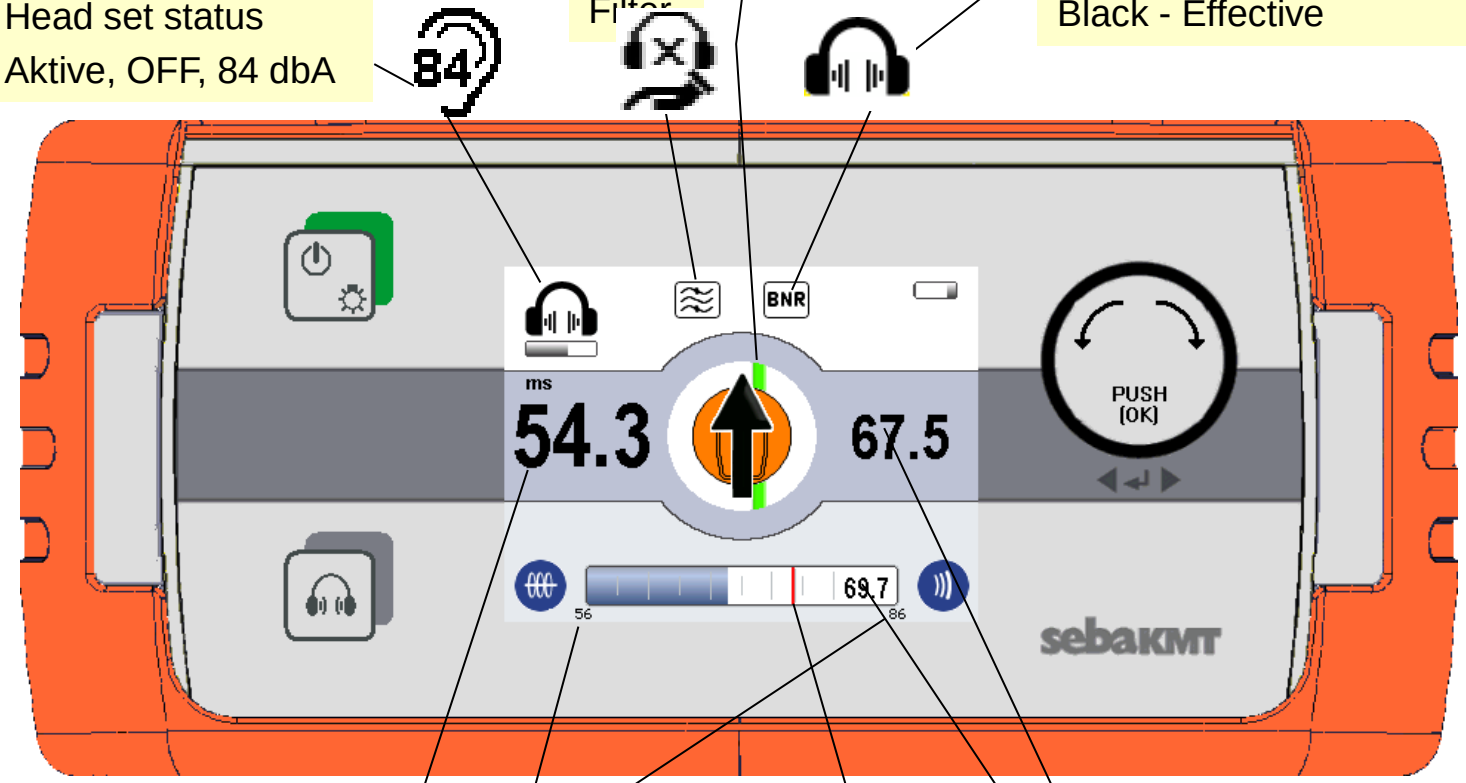
Display elements

Cable position
below Sensor

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

Head set status
Aktive, OFF, 84 dbA

Filter



Aktual Difference value

Last difference value

Level magnetic channel

Bargraph autoscale

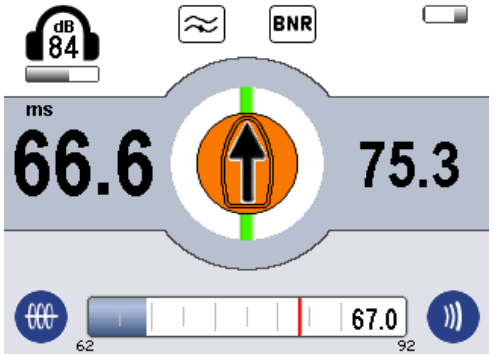
Peak hold magnetic channel

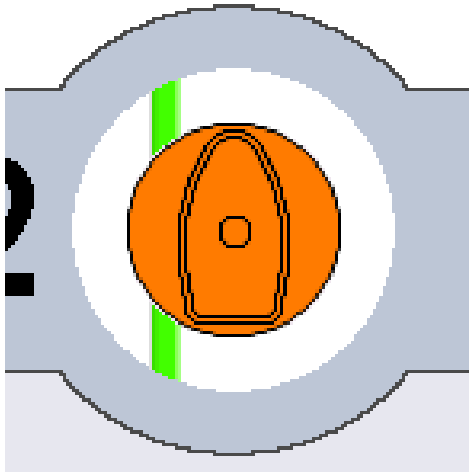
Tracing

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 fault are much faster detected and located.

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



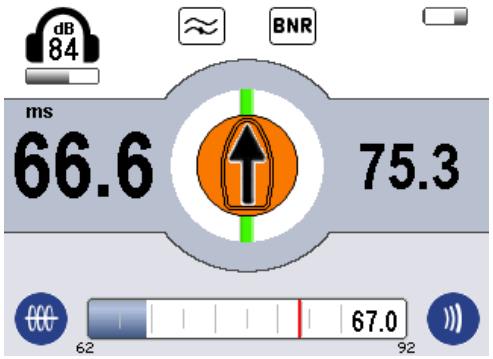


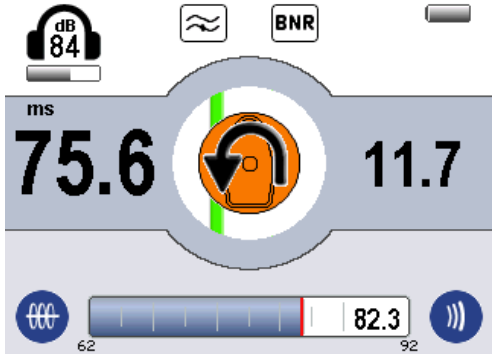
The Compass

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 ppoaches 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...

LOCATIONS

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