

The DigAlert™ probe is designed to sound its alarm if a pair of wires is carrying a digital signal. The probe tip incorporates two pick-up plates, one above the other, which act as the signal detectors. Only the difference signal is amplified. This ensures that only signals from the pair into which the probe is inserted are processed and that signals from adjacent pairs are rejected.

Battery Installation

The DigAlert™ probe requires a 9 volt (PP3 or IEC 6LR61) battery. ONLY Alkaline batteries are recommended.

To change the battery, first ensure that the unit is switched off, release the two screws on the underside and remove the cover. Do not attempt to enter the rest of the case as you will damage the sealing and void the warranty. Replace the battery ensuring that the polarity matches the marks shown in the compartment. To ensure continued water resistance, check that the battery compartment seal is clean and in place before replacing the cover and re-tightening the screws.

Operation

The DigAlert™ probe is a tool that helps you to verify that a pair is unused before it is cut or otherwise interfered with. It will reproduce audio signals directly, such as speech or baseband modem or fax tones and will warn of the presence of high speed digital circuits by producing a distinctive two-tone warning sound.

The high speed digital signals to which the probe will respond include the following services

Service	Frequency Range
ISDN2 (IMUX 3B2T solution)	20kHz - 100kHz
ISDN2 (4B3T line code solution)	20kHz - 120kHz
ISDN2 (2B1Q line code solution, DACs & Pair Gain)	10kHz - 80kHz
Kilostream	10kHz - 300kHz
ADSL (DMT, downstream)	25kHz - 300kHz/400kHz
ADSL (DMT, upstream)	20kHz - 138kHz
30 Channel PCM/Megastream	100kHz - 768kHz
CWSS (2 pair)	40kHz - 300kHz
HDSL (3pair 2B1Q) and CWSS (3pair)	40kHz - 200kHz
HDSL (2D8 CAP)	39kHz - 238kHz
HDSL (4D16 CAP)	36kHz - 216kHz

Your DigAlert™ probe has only one push-button control. Press and hold for half a second to switch on. You will hear a high beep to confirm. Press and hold again for half a second to switch off. You'll hear a lower beep to confirm.

Place the probe tip inside the twist of the wires to be tested (Fig. 1.). For maximum sensitivity ensure that the wires pass above and below the tip near the back of the marked groove. A distinctive "BeeBop" alarm signal will be heard if a digital signal is present. Additionally, any signal in the audio band is amplified and reproduced at the loud speaker. A hissing sound is

characteristic of digital traffic and will be heard in between the "BeeBop" alarm tones

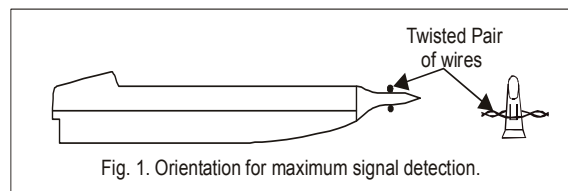


Fig. 1. Orientation for maximum signal detection.

Turning the probe tip through 90 degrees (Fig. 2.) will affect the detection of the signal as the detector plates change their alignment with respect to the signal.

The sensitivity of the probe is set to detect digital signals above a fixed threshold; otherwise the probe could be triggered by static or interfering noise signals.

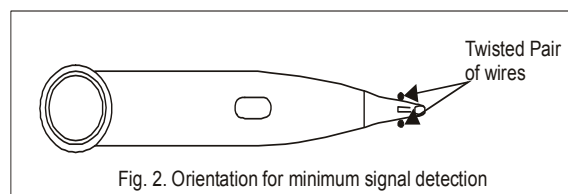


Fig. 2. Orientation for minimum signal detection

Try to keep your fingers or metal frames a few centimetres from the probe tip. Other conductors or your fingers will tend to short-circuit the high frequencies being detected reducing the sensitivity of the unit. This is only relevant to circuits that are operating near the maximum range.

Note: The probe may be triggered devices that radiate energy within the frequency spectrum of the listed digital services. Such devices include CRT monitors and fluorescent lights. The probe should not be used in close proximity to such devices.

Timeout

To conserve the battery, DigAlert™ Probe will switch off after five minutes.

At the end of the timeout period the DigAlert™ Probe will shut-down after producing a sign-off tone consisting of three beeps followed by a higher pitched beep.

Battery low

If the battery voltage drops during operation, an audible indication is given. This indication will also be given each time the unit is switched on if the battery is low. This is three falling tones. When you have heard this for the first time you will have about two hours continuous operation remaining.

The BT corporate mark is a registered trade mark of British Telecommunications plc.



DigAlert™ Probe **BT Digital Signal Identifier 1B** *Operating Instructions*



Greenlee Communications Limited

Brecon House, William Brown Close,
Cwmban,
NP20 2NN
UK

Tel : +44 1633 627710
Fax : +44 1633 627711
e-mail : emeasales@greenlee.textron.com
Web : www.greenlee.com

This Manual: Part 52059081 Issue1. 01/11



Noutilus
range

Printing Details:

Pages 1 & 2 are for printing, This page is **NOT** to be printed

Format:

Page size 176mm x 210mm with centre fold (1 sheet printed both sides).

Paper / Ink Details:

100gsm white bonded paper, printed with Black ink (greyscale)