

Cable Avoidance Tool: Technical Specifications

Controls:

On/Off switch, spring loaded trigger switch under handle.

Function select switch.

3 positions: P – Power mode
R – Radio Mode
G – Generator Mode

Sensitivity Control

Depth Switch (XD model only)

Indications:

Audio

Removable and user replaceable loudspeaker.

Visual.

Multisegment LCD giving indications of the following:

Signal strength

Mode

Battery Condition

Depth (XD model only)

Performance:

Mode	Sensitivity	Depth of Detection on typical conductor	Filter Bandwidth
Power	7mA	3m	50-500Hz
Radio	12µA	2m	10-30kHz
Generator	2µA	5m	32.1-33.4kHz

Response Width – 5% of depth

Location Accuracy – 10% of depth

Depth Measurement (XD Only):

G Mode only

Range: 0.2m to 3m (line), 0.85m to 4.5m (sonde)

Accuracy: ± 5% @ 1m

Construction:

Case moulded from high impact plastic, sealed to IP65

Weight: 2.9kg (including batteries)

Size: 720mm x 270mm x 63mm

Designed to withstand 1metre drop onto a hard surface.

Power source:

Internal 8 “AA” (LR6) cells (alkaline recommended).

Battery life 40Hrs intermittent use at 20°C.

Note: Performance figures stated can be affected by site conditions such as soil type, moisture, temperature, and unusually strong electromagnetic fields.

The Cable Avoidance Tool and Cable Avoidance Tool XD are in compliance with the essential requirements and other relevant provisions of Council Directive 89/336/EEC. Compliance has been demonstrated by testing representative samples to the relevant harmonised standards.

Signal Generator: Technical Specifications

Controls:

All operation is by push button control as follows:

On/Off.

Power Decrease (SGV) or Low Power (SGA).

Power Increase (SGV) or High Power (SGA).

Pulse / Continuous (toggle).

Audio Mute (toggle).

Connections:

Connection Mode Socket.

Separate Connection Mode Earth Socket.

Indications:

Audio feedback on button press.

Audio frequency drops with increasing load current in connected mode to indicate a good connection.

Audio frequency on Induced mode changes with power level setting.

Audio output pulses to indicate Pulse Mode.

Low batteries indicated by interrupted audio and output signal.

Display (SG-V Only):

Multisegment LCD indicating the following:

Frequency

Pulse Mode

Continuous Mode

Output Level

Battery Condition

Output Current (Bargraph)

Speaker Mute

Output:

Carrier Frequency 32768 \pm 5 Hz.

Carrier Pulse Frequency 7.5 Hz (Audio 3.75 Hz).

Connected Mode:

Maximum (open circuit) output voltage – 20 V rms.

Maximum (short circuit) output current – 18mA rms.

Maximum power 320mW into 1k Ω load.

Connection mode is automatically selected when lead is plugged into socket.

Induction Mode:

Maximum field strength at 10m – 40 dB μ A/m

Maximum power output into a single turn close coupled - 465 mW (0.22 Ω load, 0.32V rms).

Construction:

Injection moulded high impact plastic case sealed to IP65.

Incorporates a clip-on accessory compartment.

Size: 360 x 180 x 230 mm (L x W x H) with accessory compartment.

360 x 180 x 170 mm without accessory compartment.

Weight – 3.4 Kg with batteries and standard accessories.

Designed to withstand a 1 metre drop onto a hard surface.

Power source:

Internal 4 "D" (LR20) cells (alkaline recommended).

Battery life minimum 40Hrs intermittent use at 20°C.

Both the SG-A and the SG-V are in compliance with the essential requirements and other relevant provisions of Council Directive 1999/5/EC. Compliance has been demonstrated by testing representative samples to the harmonised standards EN300-330 and EN301-489. The essential radio test suites have been carried out and the equipment is in conformity with all applicable directives.