

RADIODETECTION®

# Genny4® transmitter specification

Cable Avoidance Tools



# Genny4 Transmitter Specification

## 1. Product Summary

1.1 Product Overview:	The Genny signal transmitter has been designed to complement Radiodetection's C.A.T4 cable avoidance range
1.2 Product Descriptions:	Signal transmitter Multi-function transmitter Cable and pipe transmitter
1.3 Intended Use:	Used with C.A.T®4 range of locators for avoiding and tracing buried utilities
1.4 Supplied With:	Tool tray to include direct connection lead, earth stake and neodymium magnet

## 2. Performance

2.1 Maximum output voltage:	23V RMS into an open Circuit
2.2 Maximum output current:	66mA RMS into a Short Circuit
2.3 Maximum output power:	1 Watt in Direct Connection Mode
2.4 Induction output:	Magnetic flux Density (B) 1.089 $\mu$ T @ 500mm

## 3. Transmit Functions and Operation

Transmits a signal or simultaneous signals to aid location of cable and pipes, including smaller diameter cables such as telecom or CATV

3.1 Operation:	Push button control by pressing appropriate push button On / off, speaker volume control and Boost button for selecting standard or Boost output level
3.2 LED Indication:	Indicates Boost output mode selection and battery low warning indicator
3.3 Operating Modes:	<i>Direct Connection Mode:</i> 33kHz (32768Hz) and 131kHz (131072Hz) both signals transmitted simultaneously <i>Transmitter Clamp Mode:</i> 33kHz (32768Hz) and 131kHz (131072Hz) both signals transmitted simultaneously <i>Induction Mode:</i> 33kHz (32768Hz)
3.4 Output Signal Level:	Selectable Standard or Boost Mode Note: Transmitter will always power up in standard mode
3.5 Audio output:	Standard and Mute options Audio output change to indicate a good connection
3.6 Power Options:	Alkaline or NiMH – requires 4 off D type cells
3.7 Battery Life:	40 hours continuous in standard mode or 15 hours continuous in Boost mode using Direct Connection Method 28 hours continuous in standard mode or 9 hours continuous in Boost mode using Induction method

## 4. Physical Characteristics

4.1 Construction:	Injected Molded ABS Plastic
4.2 Weight:	2.75kg (6lbs) with batteries and tool tray fitted
4.3 Dimensions:	27.5cm (10.8") x 17cm (6.7") x 20cm (7.8")
4.4 Ingress Protection Rating:	IP54
4.5 Audio Option:	Built-in water-resistant speaker
4.6 Operating Temperature:	-20°C to 50°C / -4°F to 122°F
4.7 Storage Temperature:	-40°C to 70°C / -40°F to 158°F
4.8 External Connection:	XLR type for connection of direct connection lead, transmitter clamp and accessories

## 5. Warranty and Maintenance

5.1 Manufacturer's warranty duration:	1 year standard
5.2 Recommended service schedule:	Annual, or at the beginning / end of a lease period if earlier
5.3 Storage recommendation:	Store in a clean and dry environment. Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged.
5.4 Cleaning:	Clean with a soft, moistened cloth. Do not use: <ul style="list-style-type: none"> <li>• Abrasive materials or chemicals</li> <li>• High pressure jets of water</li> </ul> If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant.

## 6. Certification and Compliance

6.1 Standards:	
Safety:	EN 60950-1:2006+A2:2013 EN 60950-22:2006
EMC:	EN 61326-1:2013 EN 300 330-2 (V1.5.1) EN 301 489-3 (V1.6.1) EN 301 489-17 (V2.2.1)
6.2 European directives:	Radio Equipment 2014/53/Eu ROHS Directive: 2011/65/EU Declaration of conformity is available from <a href="http://www.radiodetection.com">www.radiodetection.com</a>
6.3 Radio:	FCC, IC
6.4 Environmental:	WEEE compliant ROHS compliant
6.5 Manufacturing:	ISO 9001:2008

## 7. Compatible Accessories

Accessory	Part description	Part number
7.1 Genny Clamp	Available in 2' (50mm), 4' (100mm), 5' (130mm) and 8.5' (215mm) diameters.	10/GENNY-CLAMP-XX (XX= 50, 100, 130, 215)
7.2 Extension Rod	25" (630mm) length, non-conductive, nylon extension rod.	10/TX-CLAMP-EXTROD
7.3 Earth Extension Lead	33' (10m) Earth Extension Lead	10/TX-EARTHLEAD
7.4 Earth Stake	Provides an earth return for Genny transmitter.	10/GENNY-EARTHSTAKE
7.5 Neodymium Magnet	For attaching direct connect lead metal pipes etc.	10/TX-MAGNET
7.6 Direct Connection Lead	Directly connecting Genny signal to utility.	10/GENNY-DC-LEAD
7.7 Live Plug Connector (LPC)	Applies Genny signal to mains wiring via mains socket.	10/GENNY-LPC-UK 10/GENNY-LPC-EUR 10/GENNY-LPC-ROW
7.8 Live Cable Connector (LCC)	Applies Genny signal to live mains wiring.	10/GENNY-LCC