

VM-585 Locator Kit Data Sheet V1.3

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A. Typical Applications

Item	Parameter
Description	VM-585 Pipe and cable locator with ferrous metal detection mode
Uses	Locating and pinpointing of pipes, cables and buried ferrous metal objects

B. Receiver Assembly

Item	Parameter	
Construction		
Construction	- Carbon fiber reinforced antenna tube	
	High impact thermoplastic (ABS) injection molded housing	
Weight	1.37lbs (0.74kg) (Excluding battery)	
Dimensions	43in(L) x 2.6n(W) x 3.0 in(H) (1090mm x 67mm x 76mm)	
Digital Display	Indicates signal level and battery condition in line locate mode	
	Indicates signal level, battery condition, polarity, power signal warning and mode	
	selected.	
Operating Frequencies	Passive: 50Hz or 60Hz	
(Line locate modes)	Active: 512Hz or 640Hz, 8.192kHz (8192Hz), 83.1kHz (83100Hz)	
Sensitivity	- Frequency	
	50/60Hz 5mA for 20dB SNR and 10Hz bandwidth	
	512/640Hz 1.5mA for 20dB SNR and 10Hz bandwidth	
	8.192kHz 27uA for 20dB SNR and 10Hz bandwidth	
	83.1kHz 6uA for 20dB SNR and 10Hz bandwidth	
Battery Life	Alkaline – typically 20 hours continuous use at 70°F (21°C)	
Controls	Pushbutton keypad	
Connectors	1 x mini USB socket for programming	
Approvals	- Complies with European standard CE (Directive 99/5/EC)	
	• EN 55011 EN 61000-4-3	
	• EN 61000-4-2 EN 61000-4-8	
	- Complies with FCC Rules Part 15	
	• CFR 47 Part 15: 2006	
Standard Accessories	- Soft carry bag	
(Supplied with Transmitter)	- User guide	

C. Receiver Ferrous Metal Detect Mode

Depth indications are typical distances. The Depth range depends on mass of the metal and may vary greatly from what is indicated below.

Depth	Ferrous or Steel Metals
Small PK Nail	П
Up to 6 in (15 cm)	V
1½ in (4 cm) Large PK	Т
Nail Up to 10in (25 cm)	Ų .
Valve Box	
Up to 10ft (3m)	

Depth	Ferrous or Steel Metals
Manhole cover	
Up to 10ft (3m)	
5in Iron Pipe	
Up to 10ft (3m)	
Large Iron Tank	
Up to 16ft (4.8m)	

D. Transmitter Assembly

Item	Parameter
Construction	High impact ABS
Weight	1.57lbs (0.78kg) (Excluding battery)
Dimension	16.9in(L) x 3.1in(W) x 1.7in(H) (430mm x 79mm x 44mm)
Power Supply	4 x alkaline "D" cells
Battery Life	At 70°F (21°C) - continuous use
(Assuming Alkaline	Full Power: 28 hours
batteries)	Low Power: 150 hours
Connections	1 x 3 pin connection socket – (XLR)

All products are designed and manufactured in accordance with ISO 9001:2008

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Output Protection	Output protected against accidenta	al connection to up to 24	0V AC (50/60Hz)
Approvals	- Complies with European standard CE (Directive 99/5/EC)		
	• EN 55011	EN 61000-4-3	EN 61000-4-5
	• EN 61000-4-2	EN 61000-4-4	EN 61000-4-8
	- Complies with FCC Rules Part 1	5	
	 CFR 47 Part 15 		
Standard Accessories	- Direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocod		Oft (3.5m) long with crocodile
(Supplied with Receiver)	clips)		
	- "T" type ground stake		
Optional Accessories	- 2in (50mm) transmitter clamp	5in (125mm)	transmitter clamp
	- 4in (100mm) transmitter clamp	Flexible clam	p
	- LPC Separation Filter (to connect transmitter to lines carrying up to 240V AC)		

E. Transmitter Operational

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Item	Parameter
Transmitting	- Direct connection mode / Clamp mode:
Frequency by Mode	512Hz or 640 Hz (direct connection only), 8.192kHz(8192Hz) and 83.1kHz(83100Hz)
	- Induction Mode
	83.1 kHz (83100Hz)
	- Fault Find Mode
	8kFF, Fault locating mode for use with vLoc accessory A-frame or VM-510 ground fault
	locator (8.192kHz amplitude modulated with 8Hz and phase modulated with 2.66Hz)
Power output	In accordance with FCC part 15:
	1 watt – High output level setting
	0.1 watt – Low output level setting
Output Voltage	Maximum output voltage = 60V RMS
Output Current	Maximum output current = 150mA RMS constant current
Audio indication	- Connection quality – variable beep rate indicating connection quality
	- Beep constantly – for high voltage detected
Controls	Keypad with three pushbuttons
Compatible with	vLoc range of receivers, VM-550, VM-560, VM585 receivers

F. Environmental and Shipping

Item	Parameter
Temperature Range	Operating: -4°F to 122°F (-20°C to 50°C)
	Storage : -40°F to 140°F (-40°C to 60°C)
Weather Proof	IP54 and NEMA 4
Shipping Weight	7.7lbs (3.52kg)
(with transmitter)	
Shipping Dimension	47.2in(L) x 4.1in(W) x 5.9in(H) (1200mm x 105mm x 150mm)
(with transmitter)	

G. Warranty

Item	Parameter
Warranty	12 months (limited warranty)

Disclaimer: Product and accessory specification and availability information is subject to change without prior notice.

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