

vLoc3-5000

Technical Specifications V1.0











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A. Typical Applications

Item	Parameter
Description	Multi-purpose precision locator receiver
Uses	Locating & pinpointing the position of buried pipes, cables, and sondes

B. Characteristics

Item	Parameter	
Construction	High impact thermoplastic (ABS) injection molded housing	
Weight	4.6lbs (2.1kg)	
Dimensions	12.6in(L) x 4.9in(W) x 26.6in(H) (321mm x 124mm x 676mm)	
Display type	Transmissive 480 x 272 Pixel, 16-bit Color, High Visibility LCD, 4.3"	
Receiver antennas	Two sets of 3D antennas	
Battery	 Six x AA Alkaline batteries Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger 	
Battery life	 Alkaline – typically 12 hours intermittent use at 70°F (21°C) Lithium-ion – typically 27 hours intermittent use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature. 	
Environmental	IP65 and NEMA 4	
External connectors	 Accessory Socket – to charge the internal batteries and attach accessories Mini USB socket for data transfer and programming 	
Temperature Range	- Operating: -4°F to 122°F (-20°C to 50°C) - Storage: -40°F to 140°F (-40°C to 60°C)	
Compliance and approvals	 Complies with European standard CE (Directive 99/5/EC) EN 55011 EN 61000-4-2: A1 & A2 EN 61000-4-3 EN 61000-4-8: A1 ETSI EN 300 330-2 ETSI EN 301 489-1 ETSI EN 301 489-3 Complies with FCC Rules Part 15 	









	CFR 47 part 2 CFR 47 Part 15
Standard Accessories	- USB data transfer cable
(comes with receiver)	Custom lithium-ion battery pack100-240V AC mains charger ()
	- Six x AA Alkaline battery holder
	- User handbook
Compatible Accessory Options	 A-frame fault locator Remote Antenna (Stethoscope) Vehicle Charging DC Lead
	 Factory fitted radio link to model Loc3-10Tx transmitter Range of Sondes (waterproof self-contained transmitters for use in pipes & ducts)

C. Operational

Item	Parameter
Information displayed	- Standard "Bar graph" Locate with Peak, Peak with arrows, Null, Broad, Delta Null, Omni
	- Transverse Graph Mode - visual assessment of signal quality and distortion
	- Dedicated Sonde Locate - directing arrow to move to the Sonde position along the polar axis
	- Vector Screen - fully automatic locate including offset, depth and locate uncertainty
	- Plan View Screen - fully automatic graphical representation of the cable position independent of cable direction
	- Signal strength - moving bar graph & numeric value
	- Proportional left/right indication
	- Compass: full 360°-line direction indicator
	- Plug and play automatic recognition of accessories
	- Accessory specific custom screens
	- Line location - depth & current measurement
	- Sonde location - depth measurement
	- Gain level (in dB)
	- Frequency selected
	- Battery condition
	- Speaker volume
	- Bluetooth and GPS status
	- Product configuration menu & submenus









	- Customer definable start up screen
	Sonde location - depth measurement
	Gain level (in dB)
	Frequency selected
	Battery condition
	Speaker volume
	Bluetooth and GPS status
	Product configuration menu & submenus
	Customer definable start up screen
Configuration	Intuitive setup menu enables user to configure:
	- Setup frequency selection to toggle by "f" pushbutton
	- Setup location mode selection to toggle by "m" pushbutton
	- Setup screen views selection to toggle by long press "m" pushbutton
	- Units of measure (feet/me
	- Sound (Pitch) – normal/modulated
	- Language
	- Continuous depth/current options
	- Loudspeaker level
	- Backlight
	- Bluetooth pairing if fitted
	- Transmitter Radio Link if fitted
	- Warnings (Excessive Tilt, Overhead Signal, Shallow Cable, Signal Overload
	- Auto shut down – configurable to power down at five minutes, ten minutes, or never
Data logging	- 50 million record internal storage
	- All parameters stored at each location including depth, current, date, time, mode, gain setting, frequency, locate uncertainty, longitude, latitude and height above sea-level
	- GPS data coordinates, date, and time
Data Transfer	Uses Vivax-Metrotech "MyLocator" software application tool available free of chargefrom www.vivax-metrotech.com. Data can be saved in xlx, txt, fhp, kml (Google earth) formats
Operating frequencies	- Configurable frequencies from 16Hz to 200 kHz
	Power 50Hz and 60Hz
	Radio 22.7kHz, 10kHz bandwidth
	- Signal Direction - enhanced product model giving direction of outgoing current:
	• SD-USA: 256Hz/512Hz, SD-EUROPE: 320Hz/640Hz
	- Signal Select – a real-time measurement of signal bleed-over caused by capacitive o inductive coupling to other utilities:
	• SIS-491Hz, SIS-982 Hz, SIS-8440 Hz, SIS-9820 Hz, SIS-35kHz









Operating modes	- Classic Locate (2-section Bar graph)	
	- Transverse Graph Mode	
	- Plan View (Omni Directional)	
	- Vector Locate (Lateral Position 8	& Depth)
	- Sonde Locate	
Gain / scaling control	Manual gain using "+" or "- "with or	ne touch to return to center (60% of FSD)
	"+" or "- "used to rescale the vector	screen dependent on cable depth and offset
Data logging	- 50 million records	
	- Records include depth, current, coordinate, date and time (if Blu	frequency, mode, gain setting, signal strength, GPS etooth active)
Data transfer	Uses Vivax-Metrotech software application tool available free of charge from www.vivax-metrotech.com. Data can be saved in following format: xlx, txt, fhp, kml (Google earth)	
Accuracy	Locate pinpointing accuracy:	- Over 9ft (3m) - 5% of depth
		- Up to 9ft (3m) – 3% of depth
	Depth measurement accuracy:	3% of depth
	Current measurement accuracy:	- 5% of actual current – over 9ft (3m)
		- 3% of actual current – up to 9ft (3m)
	Depth range:	Dependent on strength of signal radiating to locator
	Performance rated using a single un	ndistorted signal source
Compatible transmitters	Loc-10SiSTx, and Loc3-10SiSTx	

D. Shipping and Packaging

Item	Parameter
Shipping weight	10.5lbs (4.75kg) (without transmitter)
Shipping dimensions	16.5in(L) x 11in(W) x 27.6in(H) (420mm x 280mm x 700mm) (without transmitter)

E. Warranty

Item	Parameter
Warranty	- Two years - Optional extended warranty available









F. Firmware Updates

Item	Parameter
Software	Software can be upgraded using a PC with USB port. Programs & locator software are available via MyLocator3 app.

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

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





