

vLocPro2

Precision and reliability when locating



- **Smaller and lighter than the previous model**
- **More than double the battery power**
- **Available functions can be switched on and off as needed**
- **Customisable start screen**

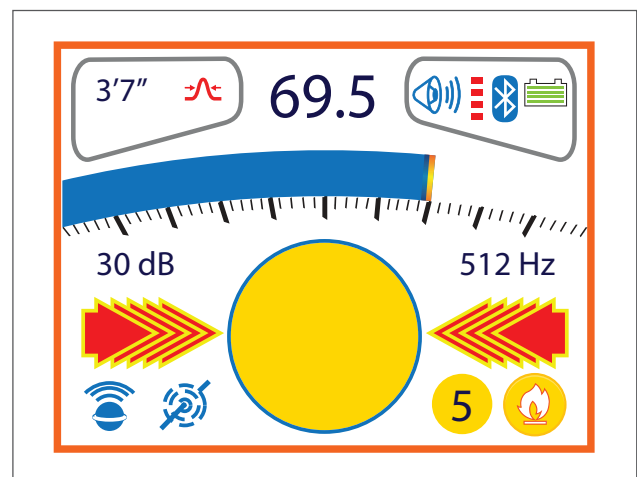


DESCRIPTION

vLocPro2

The vLocPro2 builds on the functions of the first vLocPro for improved locating efficiency.

- Carbon-reinforced plastic housing
- Protection class IP 54 for use in any weather conditions
- Colour display
- High-speed processor
- Several location modes with orientation using a compass
- A large number of available frequencies
- Depth/amperage at the press of a button or sustained
- Normal and modulated audio modes (separately selectable for the operating modes "current", "radio" and "active")
- Signal direction for improved reliability in locating
- Optional "time-off" function
- Rechargeable and alkaline batteries
- Optional accessories



The vLocPro2 includes the following additional functions:

- Plug & Play Bluetooth (customer-installed)
- Lithium-ion rechargeable batteries (including new battery management software) with more than four-fold longer service life*
- MyLocator2 configuration management software for vLoc Series 2

(*Comparison of vLocPro with NiMH and vLocPro2 with lithium-ion rechargeable batteries at 22 °C)

Equipment set Applications	vLocPro2 standard 1 W	vLocPro2 standard 5 W	vLocPro2 Signal Direction 5 W	vLocPro2 Bluetooth – Signal Direction 5 W	vLocPro2 standard 10 W	vLocPro2 Signal Direction 10 W	vLocPro2 Bluetooth – Signal Direction 10 W
Ground survey	✓	✓	✓	✓	✓	✓	✓
Routing	✓	✓	✓	✓	✓	✓	✓
Drawing plans	✓	✓	✓	✓	✓	✓	✓
Cable selection & read-out	—	✓	✓	✓	✓	✓	✓
CCP (100 Hz cathode corrosion protection)	✓	✓	✓	✓	✓	✓	✓
Camera/probe location	✓	✓	✓	✓	✓	✓	✓
Locating non-metallic lines together with probes (pigs)	✓	✓	✓	✓	✓	✓	✓
Sheath fault location	—	✓	✓	✓	✓	✓	✓

Transmitter

Several transmitters are available for use with the vLoc receivers. All transmitters are equipped for inductive mode via internal transmitter coil, direct connection and signal clamp operation.

- The single watt **Loc-1Tx** is a transmitter with three frequencies for close range applications.
- The 5 watt **Loc-5Tx** transmitter offers several frequencies, signal direction (SD) and sheath fault location modes.
- The 10 watt **Loc-10Tx** transmitter includes the maximum available number of frequencies and true 10 W power as well as signal direction (SD) and sheath fault location modes.
- The **Loc-5Tx** and the **Loc-10Tx** can transmit two frequencies simultaneously.
- The **Loc-1Tx**, **Loc-5Tx** and **Loc-10Tx** all have built-in batteries.



Loc-1Tx



Loc-5Tx



Loc-10Tx

Bluetooth and GPS

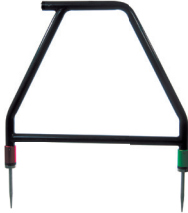
The use of GPS with location devices is on the rise in our industry. The compatibility of vLoc2 systems with a number of GPS receivers enables the user to select a GPS device of the required precision which also meets budget constraints.

- Combined GPS location with location data (such as depth, amperage, etc.)
- Date and time stamp upon concluding the location Collection of location data for use in card databases or reports
- New Plug & Play Bluetooth module which you can install

RECEIVER ACCESSORIES (specify receiver model when ordering accessories)

A frame

For determining the position of the sheath fault



Reader antenna

For cable identification



Bluetooth

Enables connection via Bluetooth to other Bluetooth devices, such as GPS receivers. The user can equip receivers of the vLoc Series 2 with the Bluetooth module at a later date.



Charging cable (12 V DC)

4 m long cable for charging the receiver battery in a vehicle



Rechargeable battery and charging unit for the receiver

Lithium-ion rechargeable batteries and charging unit



Holux receivers

Our receivers are compatible with many GPS devices via Bluetooth, including high-precision GPS devices.



TRANSMITTER ACCESSORIES (specify transmitter model when ordering accessories)

Transmitter clamps

For putting a transmission signal onto cables if direct accessing is not possible. Diameter 50 mm, diameter 100 mm, diameter 125 mm, 450 mm flexible.



LPC separation filter

For transferring the transmitter signal to cables with up to 240 V AC



Transmitter supply cable (12 V DC)

10 m cable for powering the transmitters through a vehicle



Rechargeable batteries and charging units for the transmitters

Loc-5Tx (5 watt transmitter), Loc-10Tx (10 watt transmitter), NiMH rechargeable batteries and charging units



PROBE ACCESSORIES (specify transmitter model when ordering accessories)

Battery-operated, stand-alone transmitters



Type: D18

Diameter: 18 mm
Depth to 4 m



Type: D38

Diameter: 38 mm
Depth to 5 m



Type: D64

Diameter: 64 mm
Depth to 8 m



Type: D23F

Diameter: 23 mm
Depth to 7 m

TECHNICAL DATA *

Typical Applications

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

Receiver Assembly

Construction	<ul style="list-style-type: none"> ■ Carbon fiber reinforced antenna tube ■ High impact thermoplastic (ABS) injection molded housing
Weight	2.1 kg
Dimensions (L x W x H)	262 mm x 122 mm x 639 mm
Display Type	Sharp TFT LCD ¼ VGA color display, 89 mm
Receiver Antennas	2 x Peak antennas, 1 x null antenna, 1 x compass antenna
Batteries	■ Rechargeable custom Lithium-ion batteries with 100 - 240 V AC mains charger
Options	■ Replaceable (6 x standard Alkaline AA batteries) batteries can be used when required
Battery Life	<ul style="list-style-type: none"> ■ Alkaline – typically 12 hours intermittent use at 21 °C ■ Lithium-ion – typically 40 hours intermittent use at 21 °C (with full backlight turned on). <p>Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.</p>
Bluetooth	Plug and Play custom Bluetooth interface
External Connectors	1 x Socket for accessories port (analogue & digital) 1 x Mini USB socket for data transfer / programming 1 x Socket for battery charger 1 x Standard USB (Memory stick) socket for data transfer
Compliance/Approvals	<ul style="list-style-type: none"> ■ Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15
Standard Accessories	<ul style="list-style-type: none"> ■ USB data cable ■ 100-240V AC mains charger (Lithium-ion battery) ■ Soft carry bag (Roll around bag if purchased with transmitter) ■ User handbook
Optional Accessories	Portable Transmitters: Loc-1Tx, Loc-5Tx, Loc-10Tx Sondes (waterproof self-contained transmitters for use in pipes & ducts) <ul style="list-style-type: none"> • D18-33-SR44 – 18 mm (ø) x 80 mm (L), 33 kHz, range 4.5 m, 2 x button cell batteries • D38-33-AA – 38 mm (ø) x 105 mm (L), 33 kHz, range 5 m, 1 x AA battery • D38-09-AA – 38 mm (ø) x 105 mm (L), 9.82 kHz, range 5 m, 1 x AA battery • D38-83-AA – 38 mm (ø) x 105 mm (L), 83 kHz, range 5 m, 1 x AA battery • D64-33-6LR61 – 64 mm (ø) x 186 mm (L), 33 kHz, range 8 m, 1 x 6LR61 battery • D64-09-6LR61 – 64 mm (ø) x 186 mm (L), 9.82 kHz, range 28 m, 1 x 6LR61 battery • D64-83-6LR61 – 64 mm (ø) x 186 mm (L), 83 kHz, range 8 m, 1 x 6LR61 battery • D23F-512-AA / D23F-640-AA – 23 mm (ø) x 456 mm (L), 512Hz or 640Hz, range 7 m, flexible sonde in 3 sections for use in cast iron pipes as well as non metallic pipes, 1 x AA battery <ul style="list-style-type: none"> ■ A-frame USB (for Sheath Fault Finding) ■ Remote Antenna USB ■ Custom Bluetooth Module (Easy Fit) ■ GPS Module (Requires custom Bluetooth module above) ■ Vehicle charging lead (Lithium-ion battery)

Operational

Information Displayed

- Signal strength - moving bar graph & numeric value
- Mode indication ("Peak", "Null", "Broad Peak", "Sonde" and "Peak with proportional left/right arrows" location)
- Proportional left/right indication
- Compass: full 360° line direction indicator
- Plug and play automatic recognition of accessories
- Accessory specific custom screen
- Line location – depth & current measurement
- Sonde location – depth measurement
- Gain level (in dB)
- Frequency selected
- Battery condition
- Speaker volume
- Operating frequency
- Bluetooth and GPS status
- Configuration menu & submenus
- Start up screen – product and USB accessories software revision
- 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
- Sonde / line location
- Units of measure (feet/meter)
- Power and radio modes – 50Hz or 60Hz environments
- Sound (Pitch) – normal/modulated
- Language
- Continuous depth/current options
- Loudspeaker level
- Backlight
- Bluetooth pairing if fitted
- Auto shut down – 2 or 5 minutes or never

Internal Data Logging

- At least 1000 records.
- All parameters stored at each location including Depth, Current, Mode, Gain Setting, and Frequency.
- If connected to GPS (via Bluetooth) data also recorded with coordinates and date time.
- Files can be saved as .kml, .txt, .xls, .shp.
- Data transfer program MyLocator2 available from www.vivax-metrotech.com

Operating Frequencies

Frequency set listed below.

Pre-defined Frequencies

Configurable frequencies from 16 Hz to 200 kHz.

Signal Direction – Some specific models include a feature called SD (Signal Direction) in addition to the above the transmitter will have two combinations of SD frequency.

SD-USA 256 Hz/512 Hz

SD-EUR 320 Hz/640 Hz

Vivax-Metrotech Corporation retains the right to make additions or deletions to this list at any time.

Operating Modes

- Peak
- Null
- Sonde
- Broad Peak
- Peak with proportional left/right arrows

Gain Control

Manual gain using "+" or "-" with one touch to return to center (60 % of FSD)

Data Logging

- 1000 records
- Records include depth, current, frequency, mode, gain setting, signal strength, GPS coordinate, date and time (if Bluetooth 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)

Performance Using Single Undistorted Signal Source

Locate pinpointing accuracy:

- up to 3 m – 3% of depth
- over 3 m – 5% of depth

Depth measurement accuracy:

- 3% of depth

Current measurement accuracy:

- 3% of actual current – up to 3m
- 5% of actual current – over 3m

Depth range: Dependent on strength of signal radiating to locator

Loc-1Tx, Loc-5Tx, Loc-10Tx

Compatible with Transmitter

Sensitivity

Mode Sensitivity at 1 m

50 Hz/Power mode 7.5 mA

Radio mode 20 µA

512 Hz/640 Hz 400 µA

8 kHz 40 µA

32 kHz and Above 25 µA

Environmental

Temperature Range Operating: - 20 °C to 50 °C

Storage: - 40 °C to 60 °C

Weather Proof IP54 and NEMA 4

Shipping Weight 17 kg (with transmitter)

Shipping Dimension (L x W x H) 765 mm x 285 mm x 445 mm (with transmitter)

Warranty

Warranty 24 months

Upgrade

Software Software can be upgraded using a PC with USB port. Programs & locator software will be available via MyLocator2.

H. Holux Bluetooth GPS (Optional Accessory)

Overview The M-1200 high performance Bluetooth™ GPS Receiver which featured with: Built-in rechargeable Lithium-ion battery without external power supply

Weight 30 g

Dimension (L x W x H) 67 mm x 23 mm x 16 mm

Specification

- Tracks up to 32 satellites
- Receiver: L1, 1575.42 MHz
- C/A code: 1.023 MHz
- Update rate: 1 Hz
- Antenna type: built-in patch antenna
- Minimum signal tracked: -159 dBm
- On/Off switch: slide switcher
- Lithium-ion battery lasts for 15 hours of use
- Accuracy better than 3 m when receiving SBAS correction signal

LED Indication

- Bluetooth
- Navigation update
- Battery/charger status indication

Temperature Range

- Store Temperature
 - - 20 °C to 60 °C
 - - 30 °C to 80 °C (without Lithium-ion battery)
- Operation Temperature:
 - - 10 °C to 60 °C

Features

Enhanced Features

- Reduced size and weight with enhanced ergonomic design
- Improved power management and Lithium-ion rechargeable batteries provide longer battery life (approx. 300 % improvement from vLocPro)
- Auto detects batteries type (Lithium-ion/Alkaline) and displays appropriate status
- Non-reflective display
- Enable/Disable auto shut off mode
- USB data logging (Future feature)
- Analogue channel (Future feature)
- Internal data logging (1000 records)

* We reserve the right to make technical changes.

SALES OFFICES

Megger GmbH

Obere Zeil 2
D-61440 Oberursel
Germany
T 0049 6171 92987-0
E info@megger.de

Seba Dynatronic
Mess- und Ortungstechnik GmbH
Dr.-Herbert-Iann-Str. 6
96148 Baunach
Germany
T 0049 9544 68-0
E team.international@megger.de

VLOCPRO2_DS_EN_V01

www.megger.com
ISO 9001

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