



**VIVAX**  
**METROTECH**

# VM-480B

Technical Specifications V1.3



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## A. Typical Applications

Item	Parameter
Description	"Split-Box" Buried Utility Locator
Designed Use	Locating the position of buried pipes and cables

## B. VM-480B Receiver Characteristics

Item	Parameter
Construction	High impact ABS plastic housing
Weight	4.5lbs (1.9kg)
Dimensions	11.63in(L) x 3.13in(W) x 9in(H) (295mm x 80mm 230mm)
Power	6 x Alkaline C Cells
Battery Life	250 hours average
Environmental	IP54
External Connectors	<ul style="list-style-type: none"> <li>- ¼-inch Headphone socket</li> <li>- ¼-inch AUX socket</li> </ul>
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/Approvals	<ul style="list-style-type: none"> <li>- CFR 47 Part 15</li> <li>- EN 301 489-1</li> <li>- EN 3.1 489-3</li> </ul>
Compatible Accessories Options	<ul style="list-style-type: none"> <li>- Search Handle</li> <li>- Headphones (with ¼-Inch Jack)</li> <li>- Sondes - D38 and D64 Sondes - 83.1kHz frequency</li> </ul>
Receiving Frequencies	<ul style="list-style-type: none"> <li>- Active – 83.1kHz</li> <li>- Passive – 50 / 60Hz</li> </ul>
Battery Check	Automatic at power on

## C. VM-480B Transmitter Characteristics

Item	Parameter
<b>Construction</b>	High impact ABS plastic housing
<b>Weight</b>	3.5 lbs (1.6kg)
<b>Dimensions</b>	11.63in(L) x 3.13in(W) x 9in(H) (295mm x 80mm 230mm)
<b>Batteries</b>	6 x alkaline C cells
<b>Battery Life</b>	400 hours average
<b>Environmental</b>	IP54
<b>External Connectors</b>	¼-inch connection lead and clamp socket
<b>Temperature Range</b>	Operating: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 140°F (-40°C to 60°C)
<b>Compliance/Approvals</b>	<ul style="list-style-type: none"> <li>- CFR 47 Part 15</li> <li>- EN 55011</li> <li>- EN 61000-4-2: A1 &amp; A2</li> <li>- EN 61000-4-3</li> <li>- EN 61000-4-8: A1</li> </ul>
<b>Standard Accessories (Supplied with Receiver)</b>	<ul style="list-style-type: none"> <li>- Direct connection leads</li> <li>- Ground stake</li> <li>- User manual</li> </ul>
<b>Compatible Accessories Options</b>	<ul style="list-style-type: none"> <li>- Ground extension spools</li> <li>- VM-480B 4"/100mm Induction clamp</li> <li>- Search Handle</li> </ul>
<b>Nominal Output Power</b>	125mW
<b>Transmit Frequency</b>	83.1kHz

## D. VM-480B Transmitter Operational

Item	Parameter
Transmitting Modes	<ul style="list-style-type: none"> <li>- <b>Induction mode</b> – applies signal inductively using the internal antenna</li> <li>- <b>Direct connection mode</b> - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground</li> <li>- <b>Clamp mode</b> – applies signal using an inductive clamp (aka toroid or coupler) that is placed around the target pipe or cable</li> </ul> <p>* Modes are automatically selected when accessories are plugged in. The default mode (no accessories) is Induction.</p>

## E. Shipping and Packaging

Item	Parameter
Shipping Weight	10lbs (4.5kg)
Shipping Dimension	17.5in(L) x 11.2in(W) x 30.1in(H) (765mm x 285mm x 445mm)

## F. Warranty

Item	Parameter
Warranty	2 Years Extended warranty available

All products are designed and manufactured per ISO 9001:2015.

**Disclaimer:** Product and accessory specifications and availability information are subject to change without prior notice.