

# VM-Clamp User Guide V1.1

## VM-Clamp Introduction






Clamp is used to apply the transmitter signal to a target cable when access to the conductor is not possible or the cable is live.



### WARNING

**DO NOT USE** the transmitter clamp on cables above 11kV. Use only as instructed in your company safety procedures. Always comply with local, state, or federal law regarding safety.

### Type of clamps:

	<p>2" (50mm) clamp <u>Mid frequency</u>. Used for small diameter cables such as telecom cables.</p>
	<p>4" (100mm) clamp General purpose clamp good for most <u>mid frequency</u> applications.</p>
	<p>5" (125mm) clamp General purpose clamp good for most <u>mid frequency</u> applications. Also useful to clamp around 100mm (4") non-metallic ducting that have cables contained within them.</p>
	<p>4" (100mm) signal select clamp <u>Low frequency</u> clamp also used for Signal Select and Signal Direction applications.</p>
	<p>18" (450mm) flexible clamp <u>Mid frequency</u> clamp for difficult to reach cables or large diameter situations such as telegraph poles.</p>

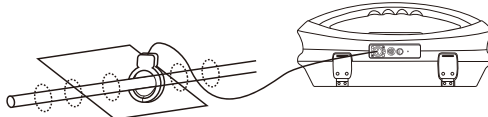
Low frequency: 300Hz to 8kHz

Mid frequency: 8kHz to 131kHz

Plugging the signal clamp supplied by Vivax-Metrotech into the output socket will place the transmitter in "Clamp" mode. Some transmitter models will show an icon confirming this.

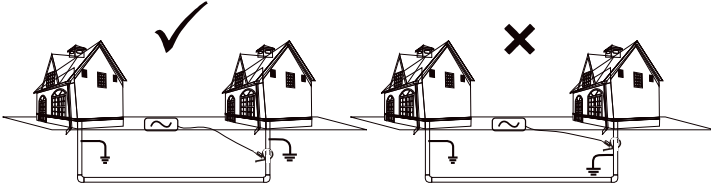


Icon



Apply the clamp around the cable to be detected ensuring the clamp closes fully and the faces of the two halves mated correctly. If the clamp is not fully closed, this will reduce the efficiency of the clamp greatly.

When using the signal clamp, both ends of the target cable should be grounded to enable the current to flow. When applying a clamp close to a grounding point where multiple grounds, or a grounding bus exists ensure that you place the clamp on to the target line and not to the ground bus/other grounds to avoid the transmitted signal going directly to ground.

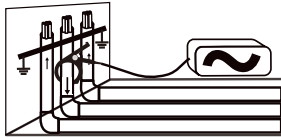


The signal clamp has the advantage that it applies a signal to the target cable and shares a smaller amount with other cross bonded cables. So if the cross bonding cannot be removed, the clamp will help to focus the energy on to a particular cable whereas other methods will share the energy more equally.



**NOTE**

This should not be regarded as a finite method of identification as there are circumstances that can change this effect.



## Clamp Extension Rod

A useful accessory to the clamp is the extension rod:



The extension rod is fitted with a 10mm screw thread. This male thread will screw into the handle of the signal clamp and will enable the clamp to be attached too hard to reach cables such as in manholes or overhead cables. The extension rod is also fitted with a female thread in the handle which enables the rods to be fitted together to further extend the range. To access this thread the yellow handgrip needs to be slid off the end of the rod.

To operate the clamp jaws when attached to the rod, gently pull on the clamp cord which will open the jaws. Release to cable to close them.

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

