

Signal Clamp User Guide V1.2

Signal 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

Always use this product as instructed in your company safety procedures.
Always comply with local, state, or federal law regarding safety.

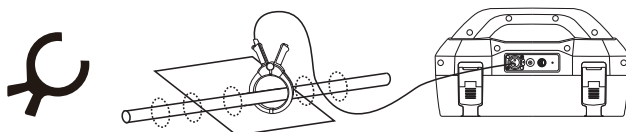
Type of clamps:

	<p>2" (50mm) clamp <u>Mid-frequency</u>. Is used for small diameter cables such as telecom cables.</p>
	<p>4" (100mm) clamp A general purpose clamp used for most <u>mid-frequency</u> applications.</p>
	<p>5" (125mm) clamp A general purpose clamp used 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 (SiS) and Signal Direction (SD) 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

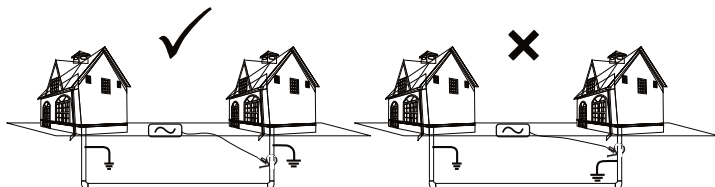
Mid-frequency: 8kHz to 131kHz

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.



Apply the clamp around the cable to be detected making sure 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, make sure that you place the clamp on the target line and not to the ground bus/other grounds to avoid the transmitted signal going directly to ground.

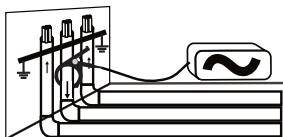


The signal clamp has the advantage that it applies a signal to the target cable and shares a smaller amount with other cross bonded cables. So if the cross bonding cannot be removed, the clamp will help to focus the energy on to a particular cable whereas other methods will share the energy more equally.



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:

Male thread for screwing into a clamp



Yellow handle (removable) female thread for connecting to another 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 to 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 extend the range further. 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.

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