4 to 20 m.a Float level probe converter

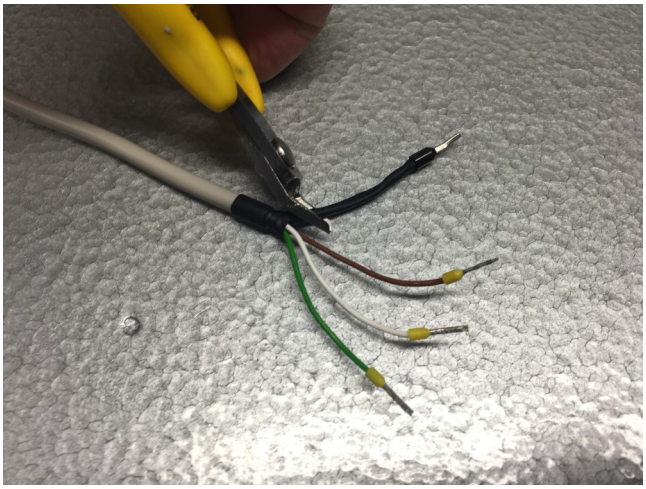
This converter turns the signal from a Sema float level probe into a 4 to 20 (or 20 to 4) milliamp signal.

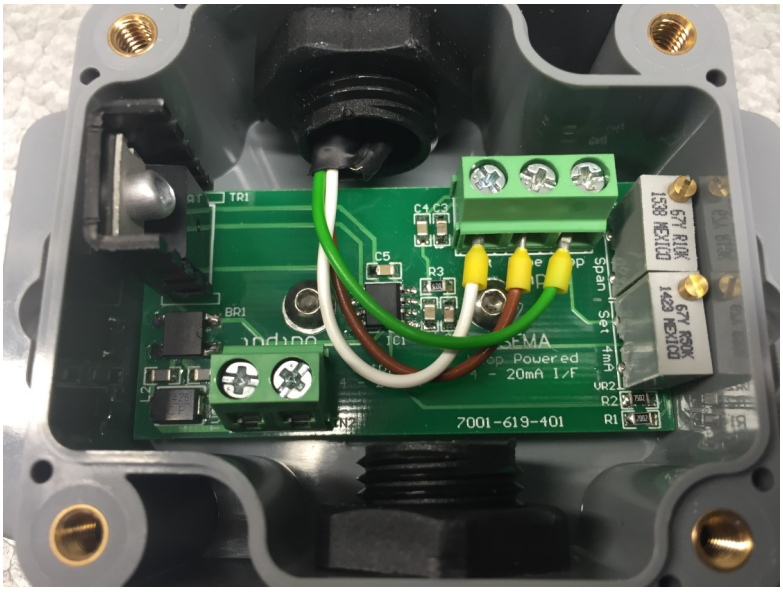
The device is 'Loop Powered'. This means that one of the wires connected to the two output terminals must be a +24V signal and the other is the milliamp output. The two output terminals are not polarity sensitive which means that the + 24 can go into either one.

The cable from the Sema probe has three wires and a screen in it. The screen is necessary when this cable is connected directly to a VSD to prevent the cable radiating interference from the VSD, when the probe is connected to the converter though the screen serves no useful purpose and should be cut off.

The screen is always the wire with the large black ferrule on it.

Put some tape around the cut end of the screen.





Next the White, Brown and Green wires should be connected as shown. This will give a 4 to 20 m.a. output as the float rises. For a 20 to 4 m.a. output (To suit Waikato controllers) swap the green and white wires.

Note that all of the terminals open inwards to make wire access easier.

Do not adjust either of the trim-pots. We have already set these for you.