Newtons4th Ltd
office@newtons4th.com
www.newtons4th.com

HF500 wide bandwidth current shunt – Fixing Bolt Guide
Taking care when making connections

Electrical

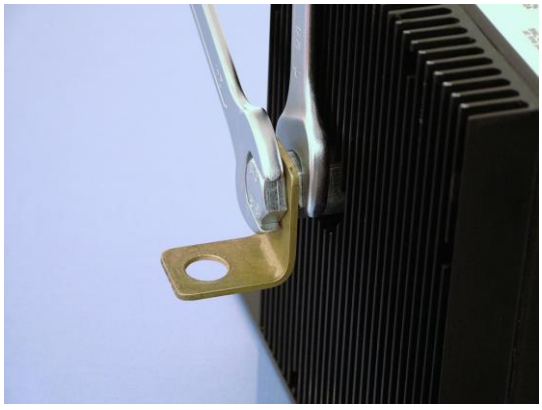
As the HF500 current shunt is fitted directly into a power circuit, it is essential that connection is made only while power is off and by suitably qualified personnel.

Mechanical

The HF500 current shunt is connected into a circuit via an M16 stud and bolt at each side of the shunt.

This connection technique allows heavy duty ring terminals to be connected directly the M16 stud or alternatively, to an 'L' bracket that is supplied along with an M16 bolt.

When tightening the M16 bolt, it is essential that two 24mm (15/16th Inch) spanners are used as shown below so that adequate torque can be applied to the bolt without transferring excessive turning force to the stud.



While the 'L' bracket permits additional connection options when space is limited, it is always preferable to make direct connections where possible because increased contact points will inevitably increase the total contact resistance and therefore also the operating temperature. The ideal connection will be with suitably sized connectors directly to the M16 bolt as shown below: