

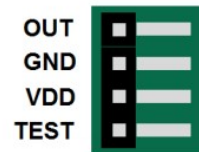
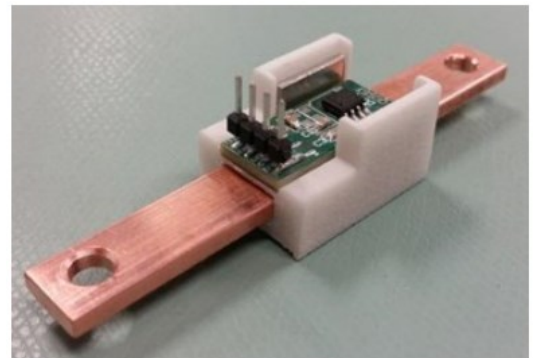
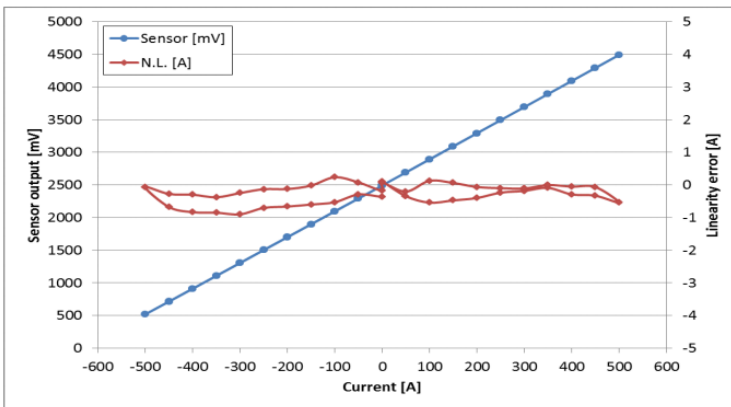
Shield-based demonstrator

USP

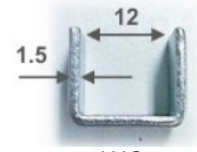
- Small size, low weight, low cost planar current sensing solution designed and calibrated for $\pm 500A$
 - 1 MLX91208CAV sensor soldered on specific PCB
 - 1x bus bars (10mm x 3mm)
 - 1x U12 shield -1 plastic holder
- Robust to mechanical tolerances and vibrations (low weight)
- High signal-to-noise and very fast response time (2-3 μs)
- On-chip compensation for thermal and lifetime drifts
- Easy to assemble

Typical Performances

- Designed to feature a linear output for +/- 500A
- Non-linearity less than 0.5%F.S. for +/- 500A

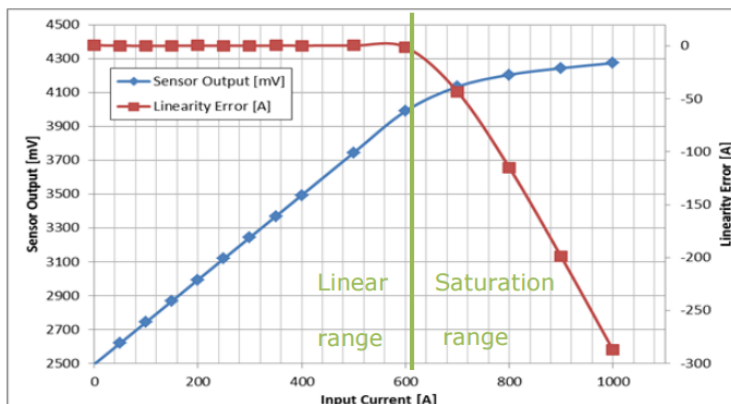


PCB connection



U12:
A typical U-shield

- The demo can be calibrated to cover larger current ranges. The IMC and the U-shield start to saturate for currents higher than 500A leading to a non-linear output behavior. This behavior is stable and repeatable and can therefore be used to monitor higher current. A wider U-shield can also be used to extend the linear range to higher currents



VDD	Vout	Must	Vss
Supply	Analog	Digital	Ground

Supply Voltage (+5V)

Current Sensor Output (+/-2V)

Test and Factory Calibration

Supply Voltage