

Current Meter

A split core current clamp connected to the WITTRA Current Meter measures up to 400 Amps AC current on the primary center conductor. The clamp can be fitted around existing electrical wiring, rapidly reducing the installation time. By harvesting energy from the current clamp, the Current Meter can run without any external power source. The Current Meter connects to a WITTRA TrakSense360 which posts measurement data to the cloud.

Current Meter



Clamp*



*Clamp sold separately

Description:

Small, rugged mechanics sealed to IP4X (IP67 with optional Protection Box). The power meter is certified for EU/NA/UK, ready for field deployment, easy to set up and easy to use. Simple installation, click the clamp over existing electrical wiring. No permanent power source required when harvesting from current clamp. Rechargeable battery for low duty cycle applications provides up to 1 months of life (usage dependent). Tag automatically recognizes the device on initial connection. Current meter parameters can be set on the portal. Monitor RMS current – optimize factory operations to save energy. Monitor machinery usage – count the active events and flag inactivity. Predictive maintenance - detects when current consumption profile changes.

SPECIFICATION	
Size	48 x 42 x 15mm (L x W x H, tag not fitted)
Weight	35g
Operating Temperature	-10°C to +60°C (not incl. clamp)
Environmental Rating	IP4X
Mechanical Impact Rating	IK06
Battery	360mAh LiPo rechargeable
Physical Interface	Micro-B USB & EU style header
Maximum Input Power	USB 150mA @5V (during battery charge) Current clamp 60mA
Current clamp nominal rating	300A 1:7500 turn ratio
Clamp accuracy	1% at 10% to 130% of nominal current rating
RMS Measurement accuracy (not including clamp)	2% error at 10% nominal current clamp rating
Minimum RMS measurement duration	5 seconds
RMS measurement current consumption	700uA
Idle current	160uA
Sleep current	5uA
Current Meter battery life (3V9 to 3V3)	10 days (one RMS measurement per 100ms)