



i1010 and i410 AC/DC Current Clamps for DMMs

Technical Data

Both the i1010 and the i410 feature

- Heavy-duty construction for industrial use.
- DC offset control to null out stray magnetism for more accurate measurements.
- Shielding and filtering circuitry for use in electrically noisy environments, such as measuring adjustable-speed drives.
- Shielded silicon rubber cable that stands up to high-temperature environments, such as automotive testing.
- A power "on" LED indicator to prevent accidentally running down the battery when not in use, and a battery check mode to verify battery voltage conditions.
- Maximum conductor size: One 750 MCM (30mm/1.18" diameter), two 500 MCM (25mm/0.98" diameter), or 2.5" x 0.2" Bus Bar (63mm x 5mm).
- IEC 1010, CAT III-600V rating.
- UL, ULc, TÜV/GS pending.

These new Hall-effect clamps offer convenient measurement of dc and ac current. They're a great choice for troubleshooting forklifts, all-terrain vehicles, uninterruptible power supplies (UPS), telecommunications backup equipment, marine or aircraft power systems and adjustable high-speed motor drives. And you can count on high-precision measurements without worrying about the conductor position within the jaws.



Specifications

Features	i410	i1010
Current range	1-400A ac rms 1-400A dc	1-600A ac rms 1-1000A dc
Accuracy	±(3.5% of reading +0.5A)	±(2% of reading +0.5A)
Bandwidth	3 kHz	10 kHz
Output signal	1 mV/A	1 mV/A
True-rms	With true-rms DMM	With true-rms DMM
Crest factor* (CF)	≤3 @ 400A ac	≤3 @ 600A ac
DC zero adjust to null out offset	Yes	Yes
Shielded heat-resistant silicon rubber cable	Yes	Yes
On/Off LED indicator	Yes	Yes
Battery check mode (9V alkaline battery)	Yes	Yes
IEC 1010 Cat III-600V	Yes	Yes



* Crest Factor is specified for the worst-case condition as follows: At the maximum specified ac current range of 400A (i410) or 600A (i1010), the clamp will accurately measure a non-sinusoidal current signal as long as the Crest Factor is equal to or less than 3. For measurements at less than the maximum specified value, CF can exceed 3.