

Model Series

- **HMS**

Production release in December 2007

The new LEM Surface Mounted transducer

Main characteristics:

- 4 standard models
- Surface mount current transducer
- Currents' measurement from 5 to 20 ARMS nominal
- Unique design for all the models
- Small size: 16(L) x 13.5(W) x 12(H) mm
- Light: 6 g
- Operating temperature range: -40 to +85°C
- 5 years warranty



Features:

- Accurate (1% of IPN at 25°C without offset) DC, AC, pulse, small currents' measurements with galvanic isolation
- Single supply +5V
- Primary conductor integrated / No insertion losses
- 8mm creepage and clearance distances +CTI 600 / Isolation test voltage: 4,3 KVRMS / 50Hz / 1min
- Voltage output
- Fixed offset and gain
- Reference access
- Open Loop technology combined with ASIC

Standard Compliance:

- EN50178 for industrial applications such as:
 - Home appliances
 - Variable speed drives
 - UPS's
 - SMPS's
 - Air conditioners
 - Power (solar, wind...)
 - Welding applications
- European Directive EMC 89 / 336 / EEC : CE Marking
- Using UL94-VO recognized materials
- Low voltage directive 72/23/EEC
- Safety IEC 61010-1

Remarks:

- HMS brings an additional pin, at the output for more flexibility in applications. This pin provides access to the internal voltage reference of the ASIC which can then be fed to the reference of an

A/D converter (Analog Digital) This extra pin can also receive the internal reference (from 2 to 2.8 V) of the DSP (Digital Signal Processor) or A/D converters commonly used in power electronics, allowing cancellation of the reference temperature drift.

- HMS is non potted.
- An additional version of the HMS transducer is being developed for PCB mounting through holes instead of surface mounting (available in few months).