



## MicroMeter

**Energy Mapping Solution** 

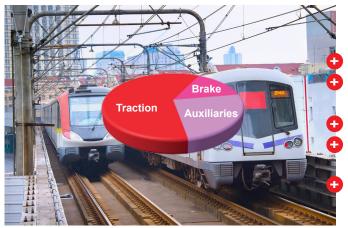


The most miniaturized energy measuring solution to create a comprehensive detailed energy consumption

High accurate system for consumption mapping & control.

MicroMeter is the perfect solution to measure energy consumption of multiple subsystem on board.

- Ultra-compact multi-channel energy meter
- Single-phase, Multi-phase, AC, DC
- Include auxiliary power supply for all off the 4th sensors channel
- Compliant with major communication network
- Easy to install



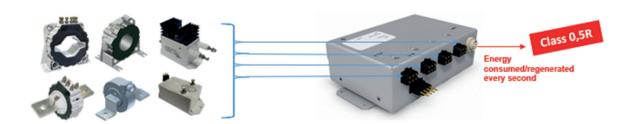
## **Customer benefits:**

Global overview of the energy consumption Essential data for energy management & efficiency

Energy data creation for all consumer Added value information for condition based maintenance

Railways standards compliance

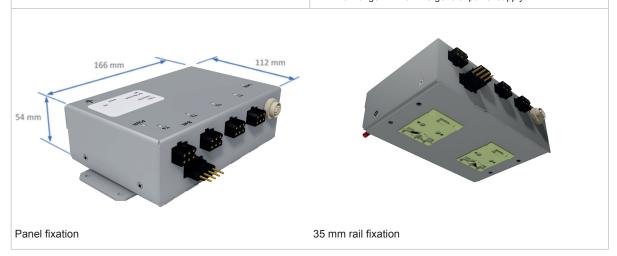
# Complete solution portfolio For easy integration on rolling stock



### **Specifications**

- Hall effect sensors complete range
- AC & DC measurement
- MSV voltage sensor, 950 5000 VAC/DC
- MSA current sensor, 100 2000 AAC/DC
- Closed loop system for high accuracy
- Overall accuracy MSA ± 0.5%, MSV ± 1%
- Operating temperature -50 °C to +85 °C
- Auxiliary supply ± 15 VDC to ± 24 VDC

- 4 inputs energy meter
- Up to 3 calculation channels
- Compliant with 3-phase
- Class 0.5R energy calculation every second
- Energy consumed/regenerated, Active/Reactive
- Digital output
  - Ethernet 10/100M
  - RS485
  - MVB
- Including ± 15 VDC power supply on each channel Full range 24-110 VDC general power supply



### To discover everything EMS can do, contact

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