



ENERGY MICROMETER

Energy-consumption mapping



The most compact and accurate meter for train energy-consumption mapping

Our Energy Micrometer is the perfect solution to accurately measure energy consumption across multiple subsystems in trains.

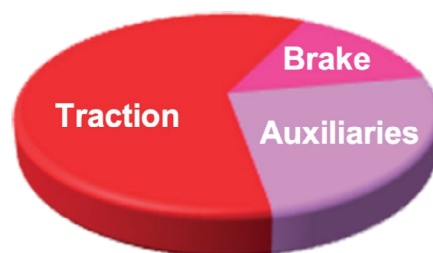


PRODUCT FEATURES

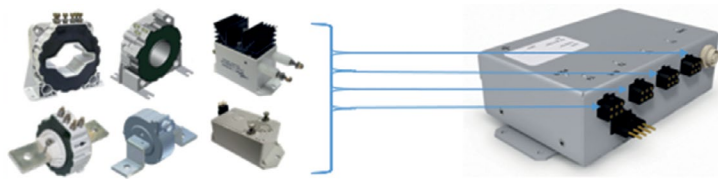
- Ultra-compact 4 input channel energy meter
- Single-phase or multi-phase, AC/DC
- Auxiliary power supply integrated for sensors
- Compliant with all relevant rail directives
- Ethernet / RS485 communication / option MVB

CUSTOMER BENEFITS

- Complete, accurate overview of energy consumption
- Provides data for energy management, savings, and maintenance
- Easy installation



**COMPLETE SOLUTION PORTFOLIO FOR
EASY INTEGRATION ON ROLLING STOCK**



Class 0,5R
Energy cosumed/regenerated
every second

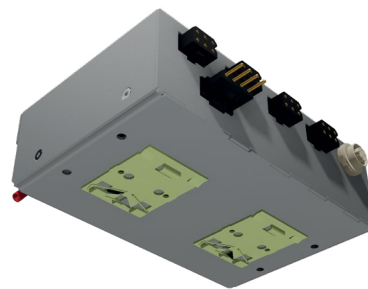
SPECIFICATIONS

Hall effect sensors
AC & DC measurement
MSV voltage sensor, 950 - 5000 VAC/DC
MSA current sensor, 100 - 2000 AAC/DC
Closed loop system
Overall accuracy MSA $\pm 0.5\%$, MSV $\pm 1\%$
Linearity $<0.1\%$
Operating temperature $-50\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$
Auxiliary supply $\pm 15\text{ VDC}$ or $\pm 24\text{ VDC}$

4-input energy meter
100 V; 100 mA; 5 A; 1 A compliant
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 option
Including $\pm 15\text{ VDC}$ power supply on each channel Full
range 24-110 VDC general power supply



Panel Fixation



35mm Rail Fixation

CONTACT

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