



## CMC III monitoring system Page 446

For upgrading existing installations or for measuring individual 16 A/32 A equipment, the PSM 1 U MID measurement modules may be used. These are readily integrated into the 482.6 mm (19") level or into the zero-U space of the rack, and connected using suitable connection cables. These measurement modules have an MID-compliant active energy meter and are therefore suitable for energy billing purposes. MID stands for "Measurement Instruments Directive" and regulates 10 types of measurement equipment based on EU Directive 2004/22/EC. MID-approved equipment is authorised for use throughout the EU.

### Benefits:

- For 16 A and 32 A phase current
- Easy to assemble
- Billable MID measurement units
- CAN bus for connection to CMC III system
- Extensive management and monitoring functions (via CMC III)
- High-MTBF and measurement accuracy of +/-1%
- Energy-efficient electric design – minimal inherent power consumption
- 1 U, 482.6 mm (19") sheet steel enclosure, for flexible mounting

### Measurement functions:

- Voltage (V), current (A), frequency (Hz)
- Active power (kW), active energy (kWh), apparent power (kVA), apparent energy (kVAh)
- Power factor (cos phi)
- Zero conductor measurement/load imbalance detection
- Measurement per phase or infeed
- Measurement accuracy +/-1% (kWh) to IEC 50 430-1
- MID certification of the active energy meter, suitable for energy billing purposes

### Material:

- Enclosure: Sheet steel

### Colour:

- RAL 9005

### Protection category IP to IEC 60 529:

- IP 51

### Standards:

- EN 60 950
- EN 61 000-6-1
- EN 61 000-6-2
- EN 55 022

### Safety directive:

- 2006/95/EC

### EMC directive:

- 2004/108/EC

Photo shows a configuration example with equipment not included in the scope of supply

## MID measurement module for CMC III

Model No.	7859.312	7859.332
Version	16 A	32 A
Sheet steel enclosure 1 U for 482.6 mm (19") mounting, approx. 200 mm deep	■	■
Assembly parts	■	■
Connection cable, plug-in, various versions	■	■
Input voltage 230 V/400 V (50/60 Hz)	■	■
No. of infeeds (each 3-phase)	2	2
Rated current A (per phase)	16	32
Power supply across all 3 phases (internal power pack)	■	■
Maximum no. of systems that may be connected to one CMC-PU III	8	8
<b>Ambient conditions</b>		
Operating temperature	-25°C...+55°C	-25°C...+55°C
Storage temperature	-25°C...+70°C	-25°C...+70°C
Ambient humidity % (non-condensing)	10 – 95	10 – 95
<b>Accessories</b>		
Connection cables, set: 1 x input 2 m/1 x output 2 m CEE (IEC 60 309, jack) (2 x required when using both infeeds)	<b>7859.315</b>	<b>7859.335</b>
Connection cables for PSM busbars: Input cable 3 m/output cable 1.2 m (with Wago X-COM connector) (2 x required when using both infeeds)	<b>7859.316</b>	–