**MU-4 overview**

**Special Features**

- True power measuring system
- True power sensor system
- Data and parameter transmission via ARTIS sensor bus
- Additional analog output 0 to +10 V

The MU-4 measuring transducer with connected Hall sensors (number depending on type of drive) is part of the CTM Tool and Process Monitoring System. The measuring transducer is equally suitable for both, DC- and AC-drives and also employable for frequency converters.

Application example:

**TRUE POWER MEASURING TRANSDUCER**
True Power Measuring Transducer

MU-4

2 mounting holes Ø 4.5 mm

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**MU-4 O830Z810301**

| Dimensions | see drawing |
| Weight | 380 g |
| Material | Makrolon |
| Degree of protection | IP20 |
| Contacting | Screw terminals |
| Operating temperature | 0 – 50 °C |
| Rel. humidity | 5 – 85 % without condensation |
| Mounting | Standard mounting rail acc. to DIN EN 60715, Screw connection |
| Voltage supply | 24 V DC (20 – 35 V), stabilized, max. 5 % ripple |
| Nominal current consumption | max. 500 mA |
| Programmable analog gain | Adjustable via ARTIS sensor bus: 1.0, 1.3, 2.0, 4.0, 10, 20, 40, 80, 160 |
| Damping | Adjustable via ARTIS sensor bus: OFF, 1.2 Hz, 2.3 Hz, 4.4 Hz, 8.4 Hz, 18 Hz |
| Interface | ARTIS sensor bus ASB (RS485) |

**Measuring inputs**

- **AC – voltage**: 3 x 500 V AC (RMS), AC-net, frequency regulated or pulse range modulated, galvanically insulated
- **AC – current**: using two Hall sensors: Type LA205S up to 200 A
- **DC – voltage**: max. 500 V, galvanically insulated
- **DC – current**: using 1 Hall sensor: Type LA205S up to 200 A

**Voltage supply**

- **DC – voltage**: max. 500 V, stabilized, max. 5 % ripple
- **Nominal current consumption**: max. 500 mA

**Analog output**

- **Frequency range**: 0 – 2000 Hz
- **Calibration**: 500 V (RMS), 100 A (1:1000), \( \cos(\phi = 0^\circ) \div U\text{-Out} = 10\ V \)

**Operation**

- **within CTM system**: via operation panel of the NC control using the ARTIS CTM menu

**Supported ARTIS Hall sensors**

- Code O3PZ0311012: CT-100
- Code O3PZ0311011: LA205S

**Interface**

- **ARTIS sensor bus ASB (RS485)**

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Marposs has an integrated system to manage the Company quality, the environment and safety, attested by ISO 9001, ISO 14001 and OHSAS 18001 certifications. Marposs has further been qualified EAQF 94 and has obtained the Q1 Award.