

ENVIRONMENTAL WORKING CHARACTERISTICS

Working T: $-5 \div +50^{\circ}\text{C}$
Storage T: $-15 \div +60^{\circ}\text{C}$
Humidity: $\leq 90\%$

STANDARDS / REGULATION

Safety: 61010-1:2001
EMC: EN61000-6-2
EN61000-6-4
CISPR22-EN55022

ELECTRICAL COMPATIBILITY CE

Energy: EN61036



EMM-μD3VA



EMM-μD3h
EMM-μD3h-p
EMM-μD3h-485

| EMM >> | μD3VA | μD3h | μD3hp | μD3h-485 |
|-----------------------------------|---|--------------------------------|--|--|
| Mechanical characteristics | DIN rail mounting 3 modules of 17,5 mm - Weight 0,4 kg | | | |
| Auxiliary supply | 230 Vac - 50-60 Hz | | | |
| Option C1 | 400 Vac | | | |
| Option C2 | 110 Vac | | | |
| Protection degree | Frontal IP 42 - Box IP 20 | | | |
| Voltage inputs | 3 inputs 500 V max | | | |
| Current inputs | 3 inputs 0,05÷5A rms with external CT ratio TA programmable - line current max 1000A | | | |
| Option 1A | 3 ingressi 0,01÷1A rms | | | |
| Option TT10 | direct inputs for current max 16A with closed miniaturized CT | | | |
| Option TT50 | direct inputs for current max 63A with closed miniaturized CT | | | |
| Option TT100 | direct inputs for current max 100A with closed miniaturized CT | | | |
| Option TTA50 | direct inputs for current max 63A with openable miniaturized CT | | | |
| Option TTA100 | direct inputs for current max 100A with openable miniaturized CT | | | |
| Option M | 3 inputs 0,05 ÷ 5A rms for measure in 3 single-phase line and or bidirectional | | | |
| Measured parameters | V I-I, V I-n | V I-I, V I-n, A | | |
| | A | cosfi, f, ° T, h | | |
| | f | W, Var, VA | | |
| | h | + kWh, - kWh, + KVarh, - KVarh | | |
| Measuring accuracy | Voltage: < 0.5% Current: < 0.5% Powers: < 1% Energiess: < 1% class 1 EN EN61036 | | | |
| Frequency measure | 40 ÷ 100 Hz | | | |
| Communication port | - | - | - | 1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps |
| Digital Outputs | - | - | 2 Photomos 10 ÷ 300Vcc / 150mA o 10÷250Vca / 150mA max for alarms or re-emission pulses (programmable time of pulse 100÷500 msec.). | - |
| Option P | 2 photomos 10 ÷ 300 Vcc / 150 mA o 10÷250Vca / 150mA max for alarms | - | - | - |
| Analog outputs | - | - | - | 3 outputs 0-20/4-20mA completely programmable definition 16 bit (by external serial/ analog converter Z3A0) * |
| Option Z3A0 | - | - | - | - |
| Display | 3 displays with 10 mm red LED (3 digit of 10 mm - 7 segments) | | | |

* in this case serial output RS485 can not be used.