

M500

Programmable Standard Current Transformer

Programmable Standard Current Transformer **M500** and Range Extender **M500E1** provides unique abilities of current ratio control in automated CT calibration systems.

M500 high accuracy is achieved by using a two-stage technology and electronic compensation of burden influence.



FEATURES AND BENEFITS

- High accuracy (current error $\pm 0,005$ %; phase displacement $\pm 0,15$ min)
- Rated primary current range: 0,5 ... 5000 A
- Rated secondary current: 5 A
- Primary current values are selected using the control knob rotary encoder or by PC via the RS 232 interface
- Electronic burden compensation of secondary circuits
- Possibility of using with automated CT calibration systems
- Built-in overload protection
- Small size and low weight

VERSIONS

M500 Transformers are available in three versions: **M500.1**, **M500.2**, **M500.3**.

The M500 Transformer set of any modification may include the **M500E1** Range Extender

APPLICATIONS

M500 is used by:

- Manufacturer of Current Transformers
- On-site testing of Current Transformers
- Calibration Laboratories
- Metrology Institutes

TECHNICAL SPECIFICATIONS

| Version | M500.1 | M500.2 | M500.3 |
|--|--|--|--|
| Current range | 1...120 % | 1...150 % | 1...150 % |
| M500 Rated primary current | 0,5; 1; 1,5; 2; 2,5; 3; 4; 5; 7,5; 10; 15; 20; 25; 30; 40; 50; 60; 75; 80; 100; 125; 150; 200; 250; 300; 400; 500; 600 A | 0,5; 1; 1,25; 1,5; 2; 2,5; 3; 4; 5; 6; 7,5; 10; 12,5; 15; 20; 25; 30; 40; 50; 60; 75; 80; 100; 125; 135; 150; 175; 200; 250; 300; 350; 400; 500; 600 A | 0,5; 0,6; 0,7; 0,75; 0,8; 0,9; 1; 1,25; 1,5; 2; 2,5; 3; 3,5; 4; 4,5; 5; 5,5; 6; 6,5; 7; 7,5; 8; 8,5; 9; 9,5; 10; 12,5; 15; 20; 25; 30; 35; 40; 45; 50; 55; 60; 65; 70; 75; 80; 85; 90; 95; 100; 105; 110; 115; 120; 125; 130; 135; 140; 145; 150; 155; 160; 165; 170; 175; 180; 185; 190; 195; 200; 225; 250; 275; 300; 325; 350; 375; 400; 425; 450; 475; 500; 525; 550; 575; 600 A |
| M500E1 Rated primary current | 750; 800; 1000; 1200; 1250; 1500; 1600; 2000; 2400; 2500; 3000; 4000; 5000* A | 750; 800; 1000; 1200; 1250; 1500; 1600; 1800; 2000; 2400; 2500; 3000; 3200; 3500; 4000; 5000* A | 650; 700; 750; 800; 850; 900; 950; 1000; 1050; 1100; 1150; 1200; 1250; 1300; 1350; 1400; 1450; 1500; 1550; 1600; 1650; 1700; 1750; 1800; 1850; 1900; 1950; 2000; 2100; 2200; 2250; 2300; 2400; 2500; 2600; 2700; 2750; 2800; 2900; 3000; 3100; 3200; 3300; 3400; 3500; 3600; 3700; 3800; 3900; 4000; 4100*; 4200*; 4300*; 4400*; 4500*; 4600*; 4700*; 4800*; 4900*; 5000* A |
| Rated secondary current | 5 A | | |
| Burden power | ≤ 5 V·A | | |
| Current error | ±0,005 % | | |
| Phase displacement | ±0,15 min | | |

* Values are possible for 1 to 120 % of rated current

Power mains

| | |
|-----------------|-----------|
| Rated voltage | 220/230 V |
| Rated frequency | 50 Hz |

Operating temperature 0...40 °C

Relative humidity up to 80 % non-condensing

Size

| | |
|--------|--------------------|
| M500 | 546 × 347 × 247 mm |
| M500E1 | 110 x 350 x 210 mm |

Weight

| | |
|--------|-------|
| M500 | 17 kg |
| M500E1 | 7 kg |

Standards






| | |
|--------|-----------------|
| Safety | EN 61010-1:2010 |
| EMC | EN 61326-1:2013 |

Calibration Interval 5 years recommended

ORDERING INFORMATION

Scope of supply

The following items are supplied with the standard M500 modification:

| No | Item Name | Part no. | |
|-------------------------|---|---|---|
| 1* | Main Unit M500.1 M500.2 M500.3 | 671221.022-01 671221.022-02 671221.022-03 |  |
| 2 | IC500 Instrument cable | 685611.026-01 |  |
| 3 | USB to RS-232 Adapter | — |  |
| 4 | Serial port interface cable RS232 Null Modem Cable DB9 F/F | — |  |
| 5 | Power Cord 10 A EU (CEE 7/XVII - C13) | — |  |
| 6 | Software M500 (installation disk) | 671221.022 K |  |
| 7 | Bag | 323382.007 |  |
| 8 | Operating manual | 671221.022 OM | |
| 9 | Passport | 671221.022 P | |
| Additional order | | | |
| 10 | M500E1 Range Extender | 671221.023 |  |
| 11 | IC500E1 Instrument cable | 685611.010 |  |
| 12 | Package bag | 323382.007-09 |  |

* Please specify modification when ordering

OLTEST LLC

Development and production
of measurement devices

POSTAL ADDRESS

OLTEST LLC, PO box 33,
Kyiv, 04128, Ukraine

TEL and E-MAIL

+38 044 537-08-01
market@oltest.ua