

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, A	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	0,5; 1; 1,25; 1,5; 2; 2,5; 3; 4; 5; 6; 6,5; 7,5; 10; 12,5; 15; 20; 25; 30; 40; 50; 60; 75; 80; 100; 125; 135; 150; 175; 200; 250; 300; 400; 500; 600	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
M500E1 Rated primary current, A	750; 800; 1000; 1200; 1250; 1500; 1600; 2000; 2400; 2500; 3000; 4000; 5000*	750; 800; 1000; 1200; 1250; 1500; 1600; 1800; 2000; 2400; 2500; 3000; 3200; 3500; 4000; 5000*	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*
Rated secondary current, A	5 A		
Burden power, V·A	≤ 5		
Current error, %	±0,005		
Phase displacement, min	±0,15		

* 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 × 350 × 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)		
5	Power cable		
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 ENERGO Sp z o.o.

Development and production of
measurement devices

POSTAL ADDRESS

Oltest Energo Sp z o.o.,
Warsaw, 00-680,
Zurawia str., 43, 109

TEL and E-MAIL

(+48 22) 60-22-998
market@oltest.pl