

M410

Electronic Voltage Burden



Electronic Voltage Burden **M410** is a programmable device used as a burden in the secondary circuits of voltage transformers during their verification and calibration

FEATURES AND BENEFITS

- Rated secondary voltages: 100/3, 100/√3, 100, 110/3, 110/√3, 110 V
- Rated power range:
 - 1 to 10 V·A, $\cos \varphi = 1$ at 50 Hz
 - 5 to 600 V·A, $\cos \varphi = 0,8$ at 50 Hz
- Sets 100 % and 25 % rated power
- Can be integrated in a computer controlled test system in conjunction with Voltage Transformer Test Set M210/M211
- Voltage overload protection
- Wide range of emulated burden ratios
- Small size and low weight

VERSIONS

Electronic Voltage Burden **M410** is available in two versions:

M410.1 sets a burden in a range from 20 % to 120 % of rated voltage.

M410.2 sets a burden:

over 120 V·A in a range from 20 % to 120 % of rated voltage;

from 1 V·A to 100 V·A in a range from 20 % to 200 % of rated voltage.

APPLICATIONS

Electronic Voltage Burden **M410** is used by:

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

TECHNICAL SPECIFICATIONS

Rated voltage, V	cos φ	Rated power, V·A	
		M410.1	M410.2
100, 100/√3	0,8	10; 15; 25; 30; 50; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600	5, 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600.
100, 100/√3	1,0	–	1, 2; 2.5; 3; 4, 5, 6, 7, 8, 9, 10
100/√3	0,8	10; 15; 25; 30; 50; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600	5, 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600
100/√3	1,0	–	1, 2; 2.5; 3; 4, 5, 6, 7, 8, 9, 10
100/3, 110/3	0,8	10; 15; 20, 25; 30; 50; 75; 100; 120; 150; 200	5; 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200.
100/3, 110/3	1,0	–	1, 2; 2.5; 3; 4, 5, 6, 7, 8, 9, 10
110, 110/√3	0,8	–	5, 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600
110, 110/√3	1,0	–	1, 2; 2.5; 3; 4, 5, 6, 7, 8, 9, 10
Sets 100 % and 25 % rated burden power			

Active and reactive power errors ± 0,03·S*

Power mains

 Rated Voltage 220/230 V
 Rated Frequency 50 Hz

Operating Temperature 0...40 °C

Relative Humidity up to 80 % non-condensing

Size 250 × 148 × 340 mm

Weight 9 kg

Standards

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






Calibration Interval 2 years recommended

* Set burden power value

ORDERING INFORMATION

Scope of supply

The following items are supplied with the standard M410 modification:

No	Item Name	Part no.	
1*	Main unit M410.1 M410.2	411648.003-01 411648.003-02	
2	IC Instrument cable (2,5 m)	685611.084	
3	Power Cord 10 A EU (CEE 7/XVII - C13)	—	
4	Bag	323382.007	
5	Operating manual	411648.003 OM	
6	Passport	411648.003 P	
Additional order			
7	IC Instrument cable (5 m)	685611.084-01	

* Please specify modification when ordering

OLTEST LLC

Development and production
of measurement devices

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