

M402

Electronic Current Burden



Electronic Current Burden M402 is designed to provide a programmable burden in the secondary circuits of current transformers during verification, calibration, and testing.

Its wide programmable burden power range allows the simulation of most standard burdens specified by national and international standards, as well as user-defined burden values according to specific application requirements

FEATURES AND BENEFITS

- ▲ Wide range of burden values according to standards: IEC 61869-2, IEC 60044-1, IEEE C57.13
- ▲ Standard and non-standard burden power values at rated secondary currents: 1; 2; 5 A
- ▲ Rated burden power range: 0; 0,5...100 VA, $\cos \varphi = 0,5...1$ at 50 and 60 Hz
- ▲ Input cable, contact and internal test set resistances are compensated by four-conductor connection
- ▲ Simple use by intuitive user interface
- ▲ Storage of individual burden settings, which can be retrieved as required
- ▲ Possibility of using with automated current transformers calibration systems

- ▲ The burden values range can be extended by connecting several devices in series
- ▲ Small size and low weight

APPLICATIONS

Electronic Current Burden **M402** is used by:

- ▲ Manufacturer of Current Transformers
- ▲ On-site testing of Current Transformers
- ▲ Calibration laboratories
- ▲ Metrology institutes

TECHNICAL SPECIFICATIONS

Specification	Value	
Rated current	1; 2; 5 A	
Current frequency	50; 60 Hz	
Current range	1...120 %	1...150 %
Range of burden power values	0; 0,5...100 VA	100...120 VA
Step of changing the burden value	0,01 VA	
Range of $\cos \varphi$ (power factor)	0,5...1	
Step of changing $\cos \varphi$ (power factor)	0,01	
Active and reactive power error	$\pm 0,03 \cdot S^*$ $\pm 0,04 \cdot S$ at $S < 1$ VA and rated current 5 A	

* Setted burden power value.

Power mains

Rated voltage	100...240 V
Rated frequency	50/60 Hz

Operating temperature 0...40 °C

Relative humidity up to 80 % non-condensing

Size (W × H × D) 460 × 150 × 465 mm

Weight (Main unit) 15,5 kg















Standards

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

ORDERING INFORMATION

Scope of supply

The following items are supplied with the **standard M100 modification**:

No	Item	Part no.	
1	M402 Electronic Current Burden	M402.100	
2	IC Instrument cable; 2,5 m	M402.200	
3	Mains cable 10 A EU (CEE 7/XVII - C13)	—	
4	Serial port interface cable RS232 Null Modem Cable DB9 F/F	—	
5	Operating manual	M402 OM	
6	Passport	M402 P	
7	Bag	S3U19	
Additional order*:			
8	IC Instrument cable 2,5 m	M402.300	
9	Clip Connector, black	66.9755-21	
10	Clip Connector, red	66.9755-22	
11	"I" Connector, black	ADA86/F/1.8-SW	
12	"I" Connector, red	ADA86/F/1.8-RT	
13	"U" Connector, black	LB 4-KS NI/9/SW	
14	"U" Connector, red	LB 4-KS NI/9/RT	
15	"O" Connector, black	LB 4-RKS NI/8.4/SW	
16	"O" Connector, red	LB 4-RKS NI/8.4/RT	

*Availability is determined when ordering.

OLTEST LLC (UKRAINE)

Development and production
of measurement devices

POSTAL ADDRESS

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