

Moving Test - MT400



Three Phase Current Source

The System Concept

While testing of metering installations on-site you can meet the problem, that you can not make a proper testing because of insufficient load conditions.

The three phase MT400 system is a lightweight and portable current source based on newest technology and serves for solving this problem by simulating the required load conditions.

The MT400 system is offering a user friendly menu guided operation via built-in soft-keys and a 6.4" LCD-Display.



Features

- Three phase portable current source up to 12 A
- Mains supply either via available voltage from the grid or via separate mains supply
- Synchronization of the test currents on the existing test voltage phases of the meter under test
- All test values are generated synthetically
- Powerful unit with single phase mains supply
- Easy user guidance
- User friendly menu guided operation via built-in soft-keys
- External control via PC possible
- Clearly arranged indication of test values via 6.4" LCD Display

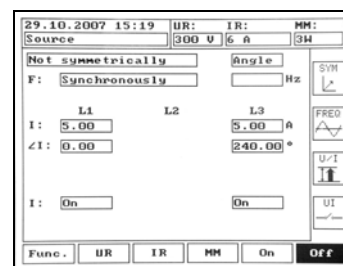
Functions

- Individual load point setting
- Adjustable phase shifting from 0 ... 360°
- Configuration of balanced and unbalanced load points
- Simulation of load conditions via adjustable currents and angles

Load Point Adjustment

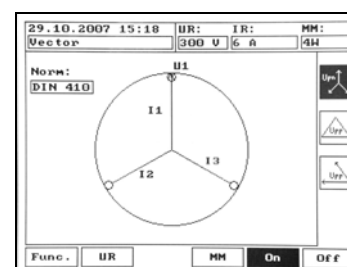
Easy simulation of load conditions via individual load point adjustment.

- The current phases are independently adjustable
- Adjustable power factors or phase angles from 0 to 360° between voltage- and current circuit



Vector Display

Clearly arranged vector diagram display of the simulated load conditions, adjustable to IEC387 or DIN410.



Actual Value Display

Simultaneous and instantaneous display of all generated and measured values.

- RMS values of every current and voltage phase
- Phase angle between current and voltage
- Active, reactive and apparent power
- Single and total power
- Frequency and phase rotation
- Power factor

	L1	L2	L3
U _{pp}	227.89	7.10	6.93
U _{pp}	227.35	0.17	227.36
I	5.0001	5.0002	5.0004
∠U	0.13	84.89	84.89
∠IU	0.13	-35.10	-155.11
λ	0.9998	0.8097	-0.8978
P	1.1393	0.0288	-0.0311
Q	0.0025	-0.0202	-0.0144
S	1.1395	0.0355	0.0346

Options

- Stable trolley transport case with wheels
- Quick-connecting cable set for current and voltage circuit

**Technical
Data****MT 400
Current Source 12 A**

General	
Power supply	85 ... 132 VAC / 170 ... 265 VAC, 47... 63 Hz
Current range	4 mA ... 12 A
Frequency range	45 ... 65 Hz
Temperature range	-15° ... +45° C
Rel. humidity (not condensing)	max. 95 %
Max. dimensions (HxWxD)	220 x 290 x 320 mm
Weight	approx. 8 kg
Source	
Current circuit harmonic distortion	< 1 %
Current circuit max. output power ¹	max. 15 VA
Current source accuracy	0.2 % (> 50 mA)
Angle range for I-output	-180° ... +180°

¹ at maximum current and ohmic loadStatus: 9th April 2008