

# MT3460 - MT3461 – MT3465

## AC Current Clamps



### General

The AC current clamps MT3460 can be used for extension of the current measurement range of ZERA portable devices of the MT series. MT3460 serves high accuracy performance and allows current measurement up to 120 A without disconnection of the installation on-site.

MT3460 will be connected with the MT device via 25pole SUB-D plug. An AC current clamp for single-phase devices is available as MT3461. The AC current clamp which is suitable for MT3000 Reference Meter is available as MT3465.



### Features

- Overvoltage category current measurement CAT IV 300 V / CAT III 600 V
- Clamps capacity for cables up to  $\varnothing$  16 mm
- Active error compensation
- Current measurement accuracy\*
 

< 0,015 %	@ 500 mA... 120 A
< 0,3 %	@ 50 mA... < 500 mA

\* in connection with MTx0, MT3xx, MT68x, MT680s, MT78x, MT3000

## Technical Data

### MT3460

#### General

Temperature range, operation	-10° ... +50° C
Temperature range, storage	-15° ... +65° C
Relative humidity (not condensing)	10 ... 90 %
Max. height above sea level	2000 m

#### Safety

Declaration of conformity	CE conform
Overvoltage category current measurement	CAT IV 300 V / CAT III 600 V

#### Clamps

Fundamental frequency	45 ... 65 Hz
Current measurement	5 mA ... 120 A
Current range(s) 23)	100 A, 50 A, 10 A, 5 A, 1 A, 500 mA 100 mA, 50 mA
Usage of ranges	10 ... 120 %
Current measurement accuracy 23)	< 0.15 % @ 500 mA ... 120 A < 0.3 % @ 50 mA ... < 500 mA
Angle measurement accuracy 23)	< 0.1 ° @ 500 mA ... 120 A < 0.2 ° @ 50 mA ... < 500 mA
Current measurement temperature drift	< 50 x 10 E-6 / K
Current measurement stability 1)	< 0.02 % @ 500 mA ... 120 A
Current measurement long term stability 2)	< 500 x 10 E-6
Clamp for max. Ø	16 mm

1: Stability over 1 hour (every minute one measurement with  $t_i = 60$  s)

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2: Stability over 1 year (every month one measurement over one hour)

23: in connection with MTx0, MT3xx, MT680s, MT68x, MT78x, MT3000

Subjects to alteration.