

HQ46

CABLE TYPE 500A MV OUTPUT AC CLAMP ON CURRENT PROBE

The HQ46 AC Current Probe is designed for easy installed in tight spaces and without the need for dismantling the primary busbar or cables. The sensing head uses sliding push-fit clamp structure, safety isolation to avoid the user to contact with charged objects directly. It complies with CE standards and meets 600V CAT III safety class.



Applications

1. Power quality monitoring
2. Smart logger
3. Distributed measurement systems
4. Energy meter calibration

Features

1. Flexible and light weights, exquisite appearance
2. Easy & quick installation in tight spaces
3. Excellent linearity
4. Maximum measuring current up to 550A

Parameters

Electrical parameters	
Rated primary current	500A AC
Output Voltage	1 mV AC/A
Amplitude accuracy	$\pm 0.3\%RD \pm 0.02\%FS$ (10%~100%I _n), 45Hz- 66Hz Wire centered
Phase accuracy	$\pm 0.5^\circ$ (10%~100%I _n) (45Hz-5kHz)
The amplitude frequency characteristic	$\pm 1\%$ (45Hz-5kHz) (Deviation accuracy)
Conductor impact	$\pm 0.5\%$ (Off-center)
The influence of external lector magnetic fields	$\leq 0.1A$ (In AC 400A/m electromagnetic fields)
Maximum input current	550A AC (Continuous) (45-66Hz, Ambient temperature 50°C)
Temperature Coefficient	$\pm 0.02\%/^\circ C$ of the reading data
Dielectric strength	5500 V AC rms/Continue 15 seconds (Circuits-iron core, iron core-shell)
The maximum rated voltage	600V AC rms
Applicable Standards	Safety: EN61010-2-032:2012,600V CAT III, Contamination II EMC: EN61326:1997+A1:1998+A2:2001+A3:2003 (Class A)

Mechanical parameters

Measurable conductor diameter	Max.46mm
Cable length	About 3 m
Dimension (W x H x E)	About 96×160×40 (Excluding protruding parts)
Weight	About 395g

Environmental conditions

Operating temperature	0 to 50°C (32-122°F)
Operating humidity	≤80%RH(No condensate)
Storage temperature	-10 to 60°C (14-140°F)
Storage humidity	≤80%RH(No condensate)
Operating environment	Indoor, altitude up to 2000 meters