

52 Series CAT IV 600V AC Current Clamp-On Probes

The **52 Series CAT IV 600V AC Current Clamp-On Probes** are a high performance current sensor incorporating a split iron core window current transformer with low ratio and phase errors, specifically designed as an accessory for CHK Power Quality instruments used on energised circuits and in CAT IV environments.

The 52 series is suitable to use outdoors in wet and humid environments.



Figure 1: 52 series CAT IV 600V current clamp-on probe

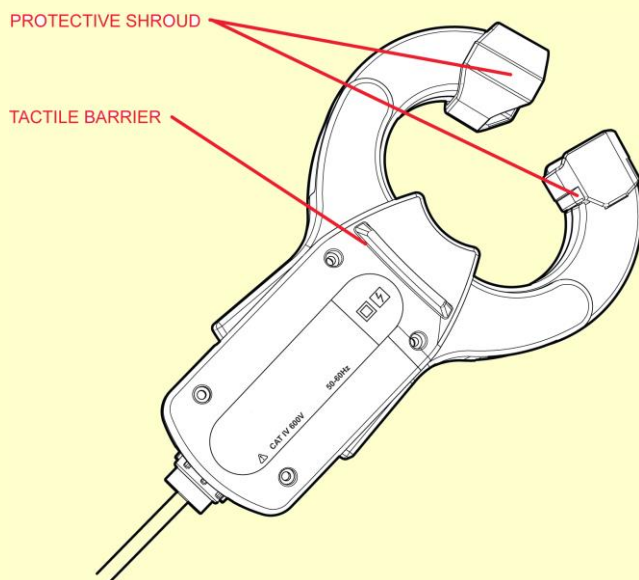


Figure 2: Highlighting protective elements

Tactile barriers are included on either side of the body handle and provide clearance to prevent the operator from contacting hazardous live voltages. Protective shrouds attached to the ends of the jaw openings also prevent the iron core from contacting

hazardous live cables during application and removal of the clamp.

Current output		Voltage output	
Part number	Rated primary	Part number	Rated primary
1ACR100	100A	1ASC100	100A
1ACR500	500A	1ASC500	500A
1ACR1000	1000A	1ASC1000	1000A

Table1: Models

Each model has a rated secondary current of 200mA and incorporates Zener diodes, providing protection against an open circuit connection to the instrument.

Part number	To be used with
1ASC series	MIRO PQ45 Power Quality Logger and Analyser
1ACR series	MIRO PQ35 Power Quality Logger and Analyser
	MIRRIN load logger

Table2: Instrument accessories

Specifications

Rated input current	Refer to table 1
Maximum input current	120% of rated current
Output signal	200mA at rated current
Burden	2.2. Ohms (1ASC series)
Accuracy Class	100A, 1.0 IEC 185 - 1987 Other, 0.5 IEC 185 - 1987
Frequency range	40Hz - 5kHz
Working voltage	650V
Dielectric strength	10750Vrms
Dimensions (H x W x L)	(60 x 100 x 200) mm
Jaw aperture	52 mm
Lead length / Weight	2m / 800 grams
Enclosure	V0 nylon
Encapsulation / Colour	Fully insulated / Black
Safety class	CAT IV 600V as per IEC 61010-1-2003
Operating temperature	-20°C to 60°C
Storage temperature	-20°C to 60°C

Note: To ensure good electrical contact, it is recommended the iron core contact surfaces be cleaned by applying cleaning alcohol and wiping the surfaces with a lint free cloth.