



GDCR7100D AC/DC Clamp Ammeter



Application

GDCR7100D is specially designed and manufactured for on-line measurement of DC and AC current below 600V. It adopts CT and digital integration technology. The clamp has no exposed metal conductor and non-contact measurement to ensure safe operation. Ultra-large clamp, easy to clamp to measure thick wire. It is widely used in electric power, communication, meteorology, railway oilfield, construction, metrology, scientific research and teaching units, industrial and mining enterprises and other fields. It is a necessary tool for electrical safety testing.


The instrument has the functions of peak hold, data hold, data storage, etc. It is equipped with USB communication interface, communication cable and monitoring

software. It can monitor and query history on-line and display history data dynamically. It has the functions of reading, saving and printing history data.

Technical Parameters

Function	AC/DC current measurement, peak current hold, online monitoring
Power	6V DC(LR6 1.5V*4 alkaline dry batteries, continuously working for 12 hours)
Test mode	Clamp CT, non-contact measurement
Clamp size	108mm*148mm (clamp electric cable of diameter 80mm, or 160mm*4mm flat cable and steel earth wires)
Measurement range	AC: 0.0A~1000A; DC: 0.0A~2000A
Resolution	0.1A AC/DC
Measurement Accuracy	0.0A-999A: $\pm 2\% \pm 5 \text{dgt}$
	1000A-1499A: $\pm 3\% \pm 5 \text{dgt}$
	1500A-2000A: $\pm 4\% \pm 5 \text{dgt}$
Standard condition	23°C \pm 3°C, $\leq 75\%$ RH, measured wire is at the center of the clamp.
Frequency response	AC: 45Hz~400Hz

Sampling rate	About 2 times/second
Measured wire position	Measured wire at approximately the geometric center of the clamp, max. Off-center error is 2%rdg.
Display mode	4-bit LCD display, display area 47*28.5mm
Polarity indication	Automatic recognition under DC current detection, displayed with “-”.
Range shift	Automatic switching.
Line voltage	Below AC 600V line measurement
Software	Stored data can be uploaded to PC via software.
USB interface	With USB interface, wire 1.5m.
Data storage	Can store 99 groups of data, “FULL” indicates full storage.
Peak hold	Peak capture and peak hold function, press “HOLD” for long to show the peak value.
Data hold	“HOLD” symbol appears.
Overflow	“OL” symbol appears.
Automatic shutdown	Automatically shutdown about 5 minutes after power on to reduce battery consumption

Battery voltage	Low battery symbol “  ” appears to remind the replacement of battery when battery voltage drops below 4.6V.
Meter size & weight	350*180*55mm(L*W*H) Meter: 1.5kg(with battery), package: 2.6kg(with accessories)
Working current	20mA
Environment	Working: -10°C~40°C, ≤80%RH; storage: -10°C~60°C, ≤70%RH
Insulation strength	AC 3700kV/rms (Between the rear cover screw and the housing)
Safety compliance	IEC1010-1, IEC1010-2-032, class 2 of pollution, CAT III (600V)