

# AC/DC Clamp Milliammeter

## AC/DC Leakage Current Measurements

### Model 700 (CE)



700 Unit



CTP-05DC Sensor

### ***FEATURES***

- High sensitive for low range leakage current
- Suitable for measurement of 4-20mA DC controlled circuit
- DC mV analog signal output
- Lowest influence from Magnetization & Terrestrial magnetism
- Wide measuring ranges up to DC 1000mA & AC 10A

### ***SPECIFICATIONS***

Safety standard	: IEC 61010-1, IEC61010-2-032 CAT II 600V or CAT III 300V
Measuring function	: AC/DC leakage current
CT type	: Slide/Hook type
Jaw opening capability	: 5mm $\phi$
Measuring ranges	: DC 100mA/1000mA, AC 100mA/1000mA/10A (45Hz~65Hz)
A/D conversion	: Dual slope integration method
AC conversion	: Average sensing rms reading
Display	: Max. 2000 count on LCD with annunciators

Over range indication	: "OL" mark on LCD
Data hold indication	: "DH" mark on LCD
Zero adjustment	: For DC current range by "0 ADJ" switch
Sampling rate	: 1 time/sec. for DC and 6 times/sec. for AC
Low battery indication	: "Battery" mark on LCD
Analog signal output	: DC 100mV full scale to each range (Output impedance: less than 10kΩ)
Limitation of circuit voltage	: Less than AC/DC 500V
Operating temperature	: 0~50°C, < 85%RH (without condensation)
Storage temperature	: -10~60°C, < 70%RH (without condensation)
Withstanding voltage	: AC 3700V/1 minute between CT and outer case
Auto power off	: Approx. 10 minutes after last switch operation (Auto power off function can be released by the switch)
Power supply	: LR6,AM-3 or AA size battery × 4
Current Consumption	: Approx. 9mA (approx. 200 hours continuous use)
Dimension	: Main unit 78(W) × 155(H) × 32(D)mm, Approx. 280g CT (CTP-05DC) 19(W) × 133(H) × 28(D)mm, 1.2m lead Approx. 100g
Accessories	: Carrying case, Batteries, Instruction manual
Option	: Cable for recorder

Accuracy (23°C ± 5°C, less than 85%RH)

### DC Current

Range	Measuring Range	Resolution	Accuracy
100mA	0.1 ~ ± 50.00mA	0.01mA	± 1%rdg ± 5dgt
	± 50.01 ~ ± 99.99mA		± 1%rdg ± 10dgt
1000mA	1 ~ ± 300mA	0.1mA	± 1%rdg ± 10dgt
	± 300.1 ~ ± 700mA		± 2%rdg ± 10dgt
	± 700.1 ~ ± 999.9mA		± 3%rdg ± 10dgt

- ※ Influence of terrestrial magnetism : Less than ± 0.5mA
- ※ Influence of magnetization : Less than ± 0.5mA by DC 1.5A on/off
- ※ Influence of CT opening and closing : Less than ± 0.7mA
- ※ Max. input current : DC 1.5A

### AC Current

Range	Measuring Range	Resolution	Accuracy
100mA	0 ~ 99.99mA	0.01mA	± 1%rdg ± 10dgt(50/60Hz)
1000mA	0 ~ 999.9mA	0.1mA	± 1%rdg ± 10dgt(50/60Hz)
10A	0 ~ 9.999A	0.001A	± 1%rdg ± 10dgt(50/60Hz)

- ※ Max. input current : AC 20A