

# PRECISE AC/DC LEAKAGE CURRENT TESTER

AC/DC CURRENT

Model **700/730/740**



INSTRUMENT BODY



CTP-05DC For M-700



CTP-30DC For M-730



CTP-40DC For M-740

## FEATURES

- The World First High Accurate AC/DC Leakage Current Testers.
- 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	: IEC61010-1/61010-2-032 CATII 600V or CATIII 300V
Measuring function	: AC/DC current
Measuring method	: Clamp CT (CTP-05DC:Slide/Hook Type)
Jaw opening capability	: 5mmφ (CTP-05DC), 30mmφ (CTP-30DC), 40mmφ (CTP-40DC)
Measuring ranges	: DC 100mA/1000mA, AC 100mA/1000mA/10A (45Hz~65Hz)
AC current detection	: Average sensing
A/D conversion	: Dual integration method
Display	: Max. 2000 count on LCD with annunciator
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	: "B" mark on LCD
Signal Output	: DC 100mV full scale to each range (output impedance: less than 10KΩ)
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 power on and can absolve this function by switch
Power supply	: UM-4×4
Consumption Current	: Approx. 9mA (approx. 200h for continuous use)

Dimension	: Display Part 78(W)×155(H)×32(D)mm, approx. 280g CT (CTP-05DC) 19(W)×133(H)×28(D)mm, approx. 100g CT (CTP-30DC) 33(W)×170(H)×24(D)mm, approx. 165g CT (CTP-40DC) 64(W)×162(H)×23(D)mm, approx. 130g
Accessories	: Soft Case, Batteries, Instruction Manual
Option	: Cable for Recorder

Accuracy (23°C±5°C, less than 85%RH)

### DC Current (After zero adjustment by 0 ADJ switch)

Range	Measuring Range	Resolution	Accuracy
100mA	0.1~±99.99mA	0.01mA	±1%rdg±10dgt
	1.0~±300mA		±1%rdg±10dgt
1000mA	±300.1~±700.0mA	0.1mA	±2%rdg±10dgt
	±700.1~±999.9mA		±3%rdg±10dgt

- ※ Influence of Terrestrial Magnetism : Less than ±2.0mA
- ※ Influence of Magnetization : Less than ±2.0mA by DC 1.5A on/off
- ※ Influence of CT Open/Close : Less than ±3.0mA
- ※ Max Input Curren : DC 1.5A (In case of over input more than DC 1.5A, output of CT will be lowered and the display will not become "OL")

### 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