

Residual Voltage Test Meter



Model No

KDX - 510

①

① Residual Voltage Test Meter(Need to use with KDX-500M)

Overview

Monitoring electrical data(such as voltage, current, active power, reactive power, surface power, PF, frequency, active energy, reactive energy)

Communication function with RS-485 or LAN.

In order to prevent the electric shock accident, this device can monitor the residual voltage by redundant wiring.

Function

- Remote power quality monitoring with RS-485 / LAN communication.
- Residual voltage can be checked by one touch safety button.
- Safety status can be checked easily by LED and voltage value.

⚠ Caution) Wh, Varh is saved in every 30 min.
And if the power is off, the accumulated value for 30 min can be deleted.

Feature

- The status of the dual-voltage measurement is indicated through auxiliary LED divided into Danger, Safe, and Diagnosis.
- Disconnect measurement and display and connect 8-pin LAN cable

Specification

Aux. power	AC 90 ~ 260V(50/60Hz) DC110V	Surge immunity		1.2/50us, 2kV (IEC 61000-4-5)	
		Electrostatic discharge		8kV/4kV	
Operating temperature	-10~50℃	Maximum allowed input		110% of input range	
Operating humidity	20~85%	Display		Custom LCD(60 X 55 X 15.5)mm Check current status LED : Status LED : SK6812	
Storage temperature	-20~60℃	Radio frequency impulse		CE : 0.15~0.5MHz : 79(66)dbuV, 0.5~30MHz : 73(60)dBuV, (KN22) RE : 30~230MHz : 40dbuV/m, 230~1000MHz : 47dBuV, (KN22)	
Insulation resistance	More than 10MΩ	Electromagnetic Radiation		0.5 Time /sec	
Surge impulse	Voltage(1.2μs/ 50μs,5kV) Current(8μs/ 20μs)	Communication	500D	Protocol : Modbus TCP (PC Communication) Interface : RJ45(LAN)	Use 8-pin LAN cable
Burst	Level 4(IEC 61000-4-4) 4kV/2kV, 3min		510	Protocol : Modbus RTU ((Measure, Display)) Interface : RJ-45 [RS-485:1(15), 2(GND), 7(A+), 8(B-)] Baudrate : 19200bps(Fix)	
Withstand voltage	AC 2kV/1min	Weight		200g(KDX-500M), 500g(KDX-500D)	

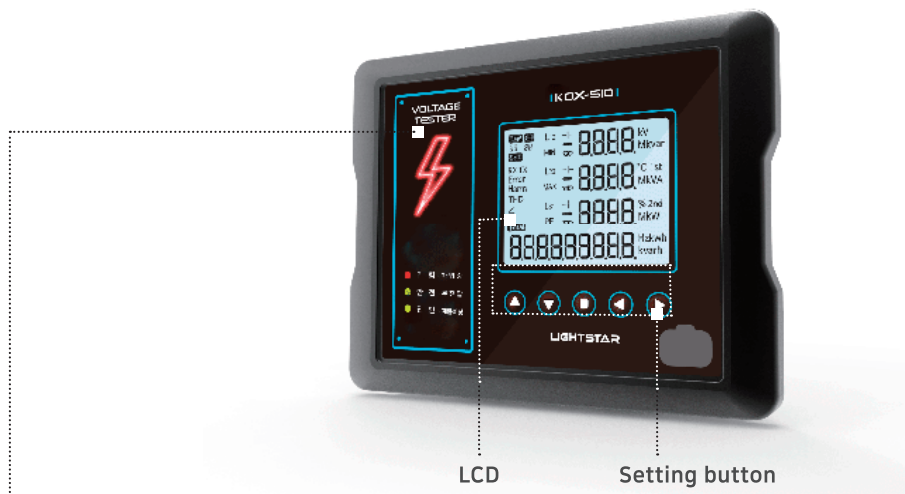
Input

Voltage	Line to line 40~600V (Residual high voltage 3V~) (Rating : 110 or 190V)
Current	0.1 ~ 6.0A(Rating : 5A)
Frequency	45~65Hz (3P3W, 3P4W)

Accuracy

Voltage	± (0.2% of rdg + 0.1% of FS)	Active power	Class 0.5 as per IEC 62053-22
Current	± (0.2% of rdg + 0.2% of FS)	Active energy	
Power factor	± (0.5% of rdg + 0.5°)	Reactive power	Class 1.0 as per IEC 62053-24
Frequency	± 0.02 Hz	Reactive energy	

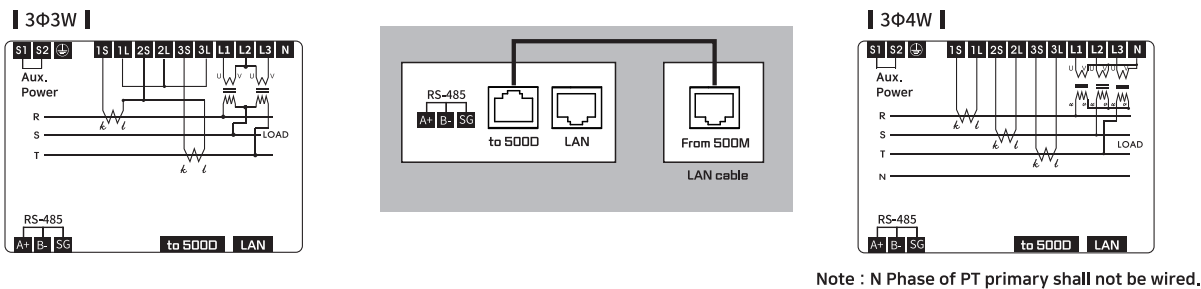
Configuration



Safety LED(Check the voltage status by color)

Normal power				
Color	Red light	Red light	Green light	Yellow light
Voltage status	Normal voltage	OVR (Over voltage + 15% over) UVR (Under voltage -15% less)	No voltage	Abnormal status (1Ch, 2Ch difference more than 15%)

Connection diagram



Drawing

Unit : mm

