

Internal Type Power Meter

Certificates 



Model No

KDX - 400M

① Internal Type Power meter

①

Overview

This device can monitors electrical data(such as voltage, current, active power, reactive power, surface power, PF, frequency, active energy, and reactive energy) by communication with RS-485 or LAN. And small LCD display energy only.

Function

- Remote power quality monitoring with RS - 485 and LAN communication
- Monitoring harmonics and phase angle (up to 15th)

⚠ 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

- Can be installed in the distribution panel with 140 x 140 x 40 Size

Specification

Aux. power	AC 90 ~ 260V(50/60Hz) , DC110V	Surge immunity	4kV/2kV
		Electrostatic discharge	8kV/6kV
Operating temperature	-10~50℃	Maximum allowed input	110% of input range
Operating humidity	20~85%	Display	Custom LCD
Storage temperature	-20~60℃		
Insulation resistance	More than 10MΩ	Measuring interval	0.5 Time / sec
Surge impulse	Voltage(1.2μs/ 50μs,5kV) Current(8μs/ 20μs)	Communication	Protocol : Modbus RTU(PC) Interface : RS-485 2wire Baudrate : 9600bps, 19200bps
Burst	Level 4(IEC 61000-4-4) 4kV/2kV, 3min	LAN Communication	Protocol : Modbus TCP/IP(PC) Interface : RJ45(LAN)
Withstand voltage	AC 2kV/1min	Weight	200g

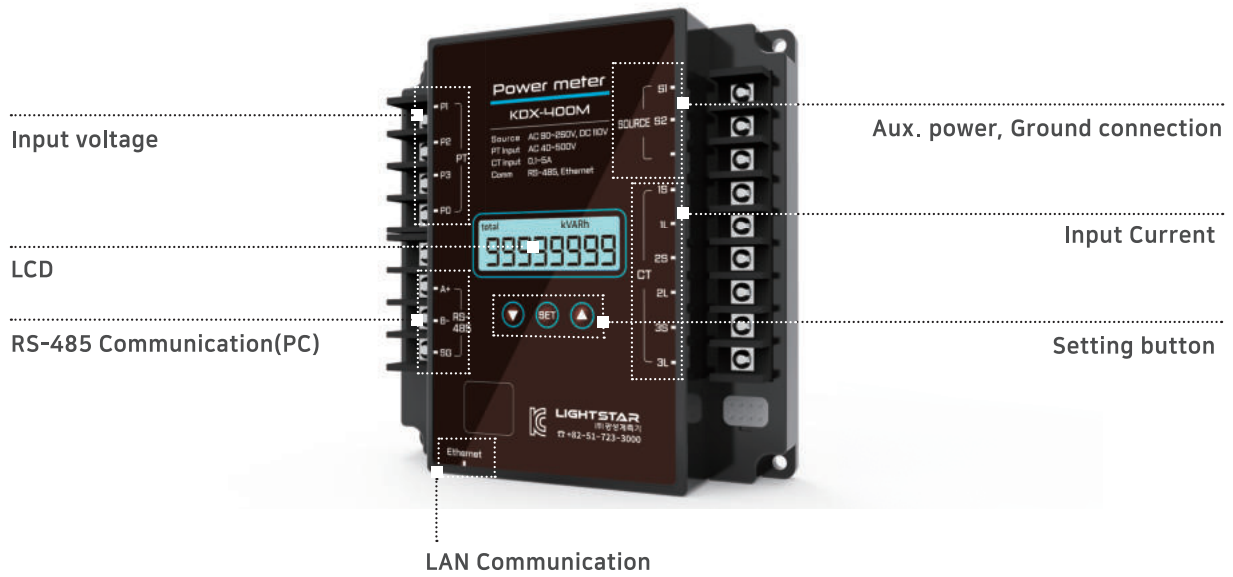
Input

Range	Voltage	Line to line 40~500V(Rating : 110 or 190V)
	Current	0.05~5A(Rating)
	Power factor	±0.200~1.000
	Frequency	45~65Hz (1P2W, 1P3W, 3P3W, 3P4W common)

Accuracy

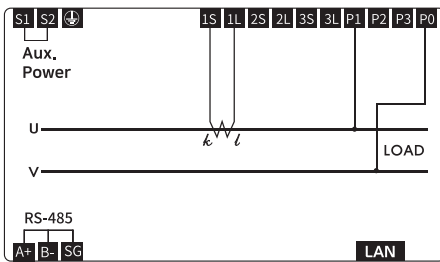
Voltage	± (0.2% of rdg + 0.1% of FS)	Active power	Class 0.5 as per IEC 62053-22
Current	± (0.2% of rdg + 0.2% of FS)	Active energy	
Power factor	± (0.5% of rdg + 0.5°)	Reactive power	Class 1.0 as per IEC 62053-24
Frequency	± 0.02 Hz	Reactive energy	

Configuration

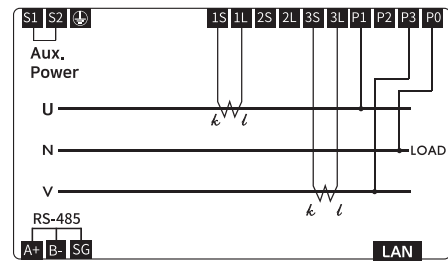


Connection diagram

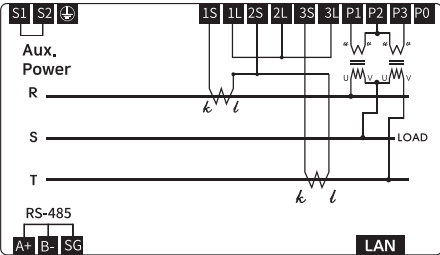
1 ϕ 2W



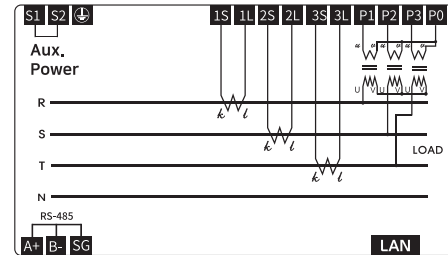
1 ϕ 3W



3 ϕ 3W



3 ϕ 4W



Note : N Phase of PT primary shall not be wired.

Drawing

Unit : mm

