

Panel Power Meter

Certificates 



Model No.

KDX - 
①② ③④

① Digital meter	② Panel meter	③ Measurement	④ Communication
		A 3P V, 3P A, W, PF, var, Hz, Wh, varh	C RS-485
		B 3P V, 3P A, W, PF, var, Hz	N/A None
		C 3P V, 3P A, W, PF, var, Hz, wh, varh (No communication)	

▲ CAUTION If the power is turn off, the accumulated value for 30 minutes can be deleted.

 How to order Example) KDX-AC KDX-B  Customized product can be produced by order.

Overview

Digital meter which can display 3 Ø A, 3 Ø V, W, PF, var, Hz, Wh, varh and remote power monitoring by RS - 485 communication.

Function

- 3-phase voltage, 3 phase current, W, PF, var, Hz, Wh, etc. and others are displayed with three windows.
- CT, PT, primary value can be set.
- RS-485 Serial Communication
- Up to 500V, direct connection is possible without PT.

Input

Range	Division	A/B	C
	Line voltage		40~500V
Current input		0.1~6A	0.5~6A (Rated CT:5A)
Accuracy	V,A	± (0.3% of rdg + 0.2% of F.S)	1.5 times of A / B
	W var	± (1.0% of rdg + 0.2% of F.S) at PF=1	
	PF	± (1.0% of rdg + 1.0°)	
	Wh varh	± (W Accuracy + 0.1 count/h)	

Specification

Item	Description
Aux. power	KDX-A/B: AC 90V ~ 260V(50/60Hz) /DC110V KDX-C: AC 220V(60 Hz)Only
Display method	14.2 LED(0.56Inch, Red) Update speed : 1000ms
Communication	RS-485 multi-drop 2wire, 9600bps, 0~255, Maximum 1.2km, Modbus RTU
Withstand voltage	AC 2kV/1 minute
Surge impulse	1.2/50µs 4kV, 8/20µs 2kA
Burst	Level 4(IEC 61000-4-4)
Input loss	- V : Less than 0.1VA - A : Less than 0.2VA
Operating temperature / humidity	-10°C ~ 50°C / 20~85%
Insulation resistance	More than 10MΩ (500VDC)
Weight	KDX-A/B: 800g KDX-C: 1kg

Communication

Interface	RS-485, Multi-drop 2Wire
Protocol	Modbus RTU(Basic)/Melsec(option)
Address setting	0~255
Transmission distance	Maximum 1.2km
Transmission rate	9600bps

Detailed Function

Function keys

- Circuit method selection
- PT primary voltage selection
- CT primary current selection
- Communication address setting (0 to 255)
- Wh, varh Reset

AS Button

- A1, A2, A3, CT Primary current selection
- CT Primary current selection

Setting Mode (SET + AS Key)

→ Setting(↓, ↑ Key) → save

(AS Key)

C.T Primary current value selection

5→10→15→20→25→30→40→50→60→70→75→80→90
 →100→120→125→130→140→150→160→170→175→
 180→200→225→240→250→300→400→450→500→600
 →700→750→800→900→1000→1200→1250→1300→
 1400→1500→1600→1700→1750→1800→2000→2500→
 3000→3200→3500→3600→4000→5000→6000

VS Button

- V1, V2, V3, PT Primary current selection
- Wiring method/P.T Primary current selection

Setting Mode (SET + VS Key) → Wiring
 method(↓, ↑ Key) → Save(VS key)→
 P.T ratio(↓, ↑ Key) → save(VS Key)

Primary voltage value selection (Choose 500 for direct connection)

3P3W

500→380→440→3.30→6.60→7.20
 →11.0→11.4→22.0→22.9→66.0→154

3P4W

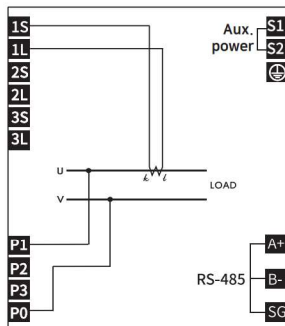
500→380→11.4→22.9

FS Button

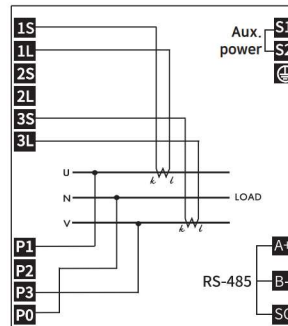
Select: W-PF-var-Hz-Wh-varh, Communication address selection



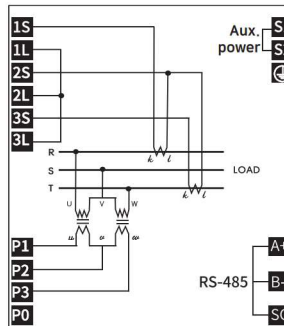
Connection diagram



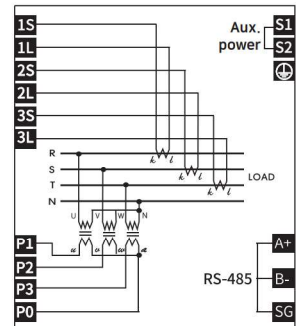
1P2W



1P3W



3P3W



3P4W

Drawing

Refer to page 80 type D