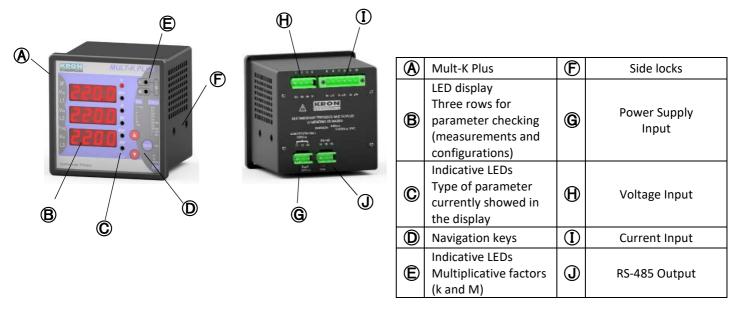
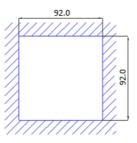
# Mult-K Plus

### **1** Knowing the Product



#### **2** Installing the Product

Accomodate the meter on the panel cutout and fasten it using the side locks (E). Panel's cutout dimensions must be 92x92mm.



### **3** Power Supply Connection

Power Supply signal must be applied to the G terminal block. Cabling must be connected in accordance to the power supply option present in the meter.

Selectable AC Voltage (220 or 120 Vac)	
Working Range: 80 to 120%	
220Vac	120Vac
11 (Ph) 13 (Ph/N)	12 (Ph) 13 (N)
Universal Power Supply	DC Power Supply
Working Range:	Working Range:
85 to 265 Vac / 100 to 375Vdc	24, 48 Vdc: 80 to 120%
	12Vdc: 90 to 120%
11 13 (Without Polarity)	11 (+) 13 (-)



## ATTENTION

Pay extreme attention to the type of auxiliary power supply of your meter.

Incorrect cabling connection or applying a voltage signal above the specified limits can damage it severely.



# Mult-K Plus

## **Quick Installation Guide**

time

**Function (Configurations):** 

Configuration of constants for PT and

CT, connection diagrams, integration

parameters and reset command (energies and demands). To access this mode, hold the • and • keys simultaneously for three seconds.

(demand), communication

## **4** Voltage Input Connections

Connect phases and neutral references to the igoplus terminal block, using the order described below:

<b>Terminal Description</b>	Signal to be Connected	
4 – N	Neutral	
3 – Va	Phase 'R'	
2 – Vb	Phase 'S'	
1 – Vc	Phase 'T'	
Measurement Range: 20 to 500Vac Ph-Ph		
11,54 to 288,67 Vac Ph-N		

### **5** Current Input Connections

Connect phase references to the ① terminal block, using the order described below:

<b>Terminal Description</b>	Signal to be Connected	
10 – °la	CT's S1 - Phase 'R'	
<mark>9</mark> – Ia	CT's S2 - Phase 'R'	
8 – °Ib	CT's S1 - Phase 'S'	
7 – Ib	CT's S2 - Phase 'S'	
6 – °Ic	CT's S1 - Phase 'T'	
5 – Ic	CT's S2 - Phase 'T'	
Measurement Range: 20mA to 5Aac		
(Continuous Overload: up to 7.5Aac)		

**6** Accessing Operation Modes



Instantaneous Measurements: checking of V, A, W, VAr, VA, PF and Hz values. To access this mode, hold the and keys simultaneously for three seconds.

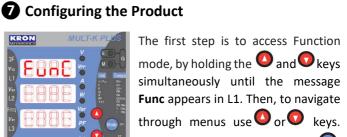


be 0001.00



Diagrams" table for checking the available CD options.

To confirm a configured value, press *till all digits stop* flashing, only the LEDs 'k' and 'M' will be blinking in this situation.



To enter a specific menu, use 🥯

Potential Transformer ratio.

PT Configuration: Definition of

Example: 440/220V, PT= 0002.00. Use key to navigate through the digits and , to increment or decrement the value of the active

be 0001.00

kev

**CT Configuration:** Definition of Current Transformer ratio. Example: 500/5A, CT = 0100.00.

digit. If no PT is used, PT ratio must

Use key to navigate through the digits and , to increment or decrement the value of the active digit. If no CT is used, CT ratio must

**CD Configuration:** Definition of Connection Diagram, according to the circuit measured.

Use wey to navigate through the digits and , to increment or decrement the value of the active digit. Please refer to the "Connection"



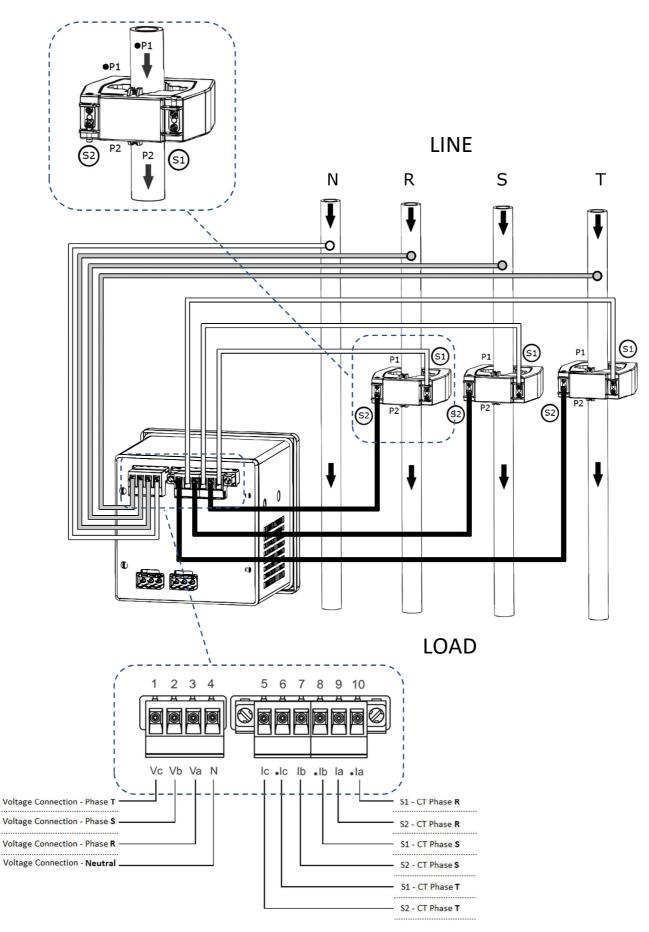


**Energy Measurements:** checking of **kWh+, kWh-, kVArh+, kVArh-, kW** and **kVA** values. To access this mode, hold

the • and • keys simultaneously for three seconds.

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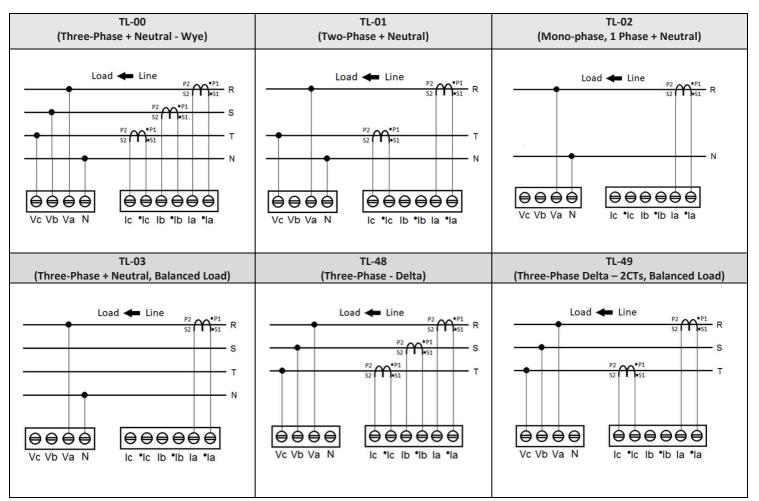
## **Connection Diagram Example: CD-00**





# Mult-K Plus

#### **Connection Diagrams (CD - TL configuration)**



#### FAQ – Frequently Asked Questions

#### a. Meter doesn't turn on

Check if the connection to the terminal block G was made as stated in step 3 and also if the voltage magnitude applied is within the working range for meter's power supply.

#### b. Measurement values seem incorrect

Check if voltage and current connections are corresponding to each other, i.e., each meter's channel with the same reference indication - Example: (Va, Ia\* - Ia) - must receive signals from the same phase, as stated in steps 4 and 5. Also check if the polarity of CTs is correct (Correct Installing, Primary side: (LINE) P1  $\rightarrow$  P2 (LOAD)| Secondary side, S1 connected to Ix\*  $\rightarrow$  S2 connected to Ix).

#### c. Which parameter should be read to check energy consumption?

To read energy consumption info, the user must verify the Positive Active Energy parameter (EA). This parameter is the first that appears when Energy Measurements mode is accessed. "EA" is a cumulative value, so, to obtain the energy consumption during a period of time, a prior reading must be subtracted from the current value.

THIS IS A QUICK USER GUIDE, WITH ESSENTIAL INFO FOR CONFIGURING AND INITIAL OPERATION OF THE METER. FURTHER DETAILS CAN BE CHECKED IN THE PRODUCT'S USER MANUAL, ALSO AVAILABLE IN KRON'S WEBSITE: www.kron.com.br.

