



DM5230/DM5240 Energy Meter



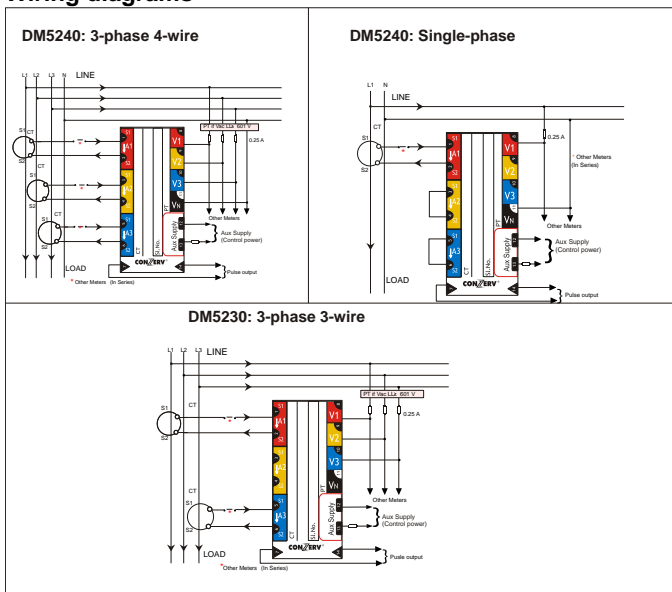
The energy meter has six moving counters and three static or fixed zeros. For example if the meter reads the energy value as 123456 000, 123456 are the six moving counters and the remaining are the three static zeroes.

LED Indicators:

The energy meter has the following three LEDs.

- **ON LED:** Lit, when auxiliary supply (control power) is present
- **INTEG LED:** Indicates the energy counter update. Normally the indicator blinks 8 or 10 times based on the full scale or CT/PT ratio set.
- **REV LED:** For cross checking connections, low current (<5% load of CTR), and low power factor (PF) (<0.5 Lag or >0.8 Lead).

Wiring diagrams



Limitation of Warranty

Warranty as per company warranty policy.

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TROUBLE SHOOTING GUIDE FOR DM5230/ DM5240

TYPICAL FAULT SYMPTOM	PROBABLE CAUSE OF FAULT	SOLUTION
Rev. LED 'ON' and/or Meter reading is higher or lower than the calculated value.	Interchange of two or more phase Current sequence at Meter lin terminals.	1.Panel R phase CT wiring to be connected to Ir with correct polarity (R phase of Meter) terminal on the meter. Similarly for Y and B phase also to be done. 2.Switch 'OFF' the auxiliary supply for 10 secs. &
	Interchange of S1, S2 connection of Current phases at Meter lin terminals.	1.Panel CT, R phase S1, S2 wires to be connected to Ir (R phase of meter), S1 and S2 terminals of the Meter respectively. Similarly for Y and B phase also to be done. 2.Switch 'OFF' the auxiliary supply for 10 secs. & then switch 'ON'.
Rev. LED 'ON'	System is operating at below 5% load of Full scale.	1. Ensure that the load is above 5% of Full scale. 2. Switch 'OFF' the auxiliary supply for 10 secs. & then switch 'ON'.
	System is operating at poor PF approx. below 0.5 for DM5230 and below 0.1 for DM5240.	1. Improve the system PF to above 0.5 for DM5230 and above 0.1 for DM5240. 2. Switch 'OFF' the auxiliary supply for 10 secs. & then switch 'ON'.
Meter reading is higher or lower than calculated value.	Voltage signals not present at Vin terminals of the Meter for one or more phases after making the wiring connections.	Ensure that the voltage signals are present at all phases at Vin terminals of the Meter.
	Current signals not present at lin terminals of the Meter for one or more phases after making the wiring connections.	Ensure that the current signals are present at all phases at lin terminals of the Meter.
	Panel CT Ratio and Meter CT Ratio are not same.	Ensure that the panel CT ratio and Meter CT ratio are same. Ex : Panel CT ratio is 500/5A and Meter CT ratio should be 500/5A.
	Panel PT Ratio and Meter PT Ratio are not same.	Ensure that the panel PT ratio and Meter PT ratio are same. Ex : Panel PT ratio is 11kV/110V and Meter PT ratio should be 11kV/110V.
	Grounding is not done correctly for the following. a) Neutral of the panel. b) Neutral of the PT (if applicable) c) Earth of panel.	Proper grounding should be done for the following. a) Neutral of the panel. b) Neutral of the PT (if applicable) c) Earth of panel.

Note : 1. To identify phase reversal, please check one phase at a time.
2. CT loss and cable loss to be considered while calculating the reading.