

TNY-3M Three Single Phase Meter



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1. Introduction :

TNY-3M meter is a compact meter will 3 row of display & indication led. Four navigator keys for easy configuration of meter . TNY-3M are available with accuracy class of 1.0 IEC 62053-21. It has a RS-485 communication.





2. Features

- Display of Measured Quantity & Parameter
- Password protection for user programmable parameters
- RS-485 Communication
- Accuracy Class 1.0 IEC 62053 - 21
- Selectable auto & manual scroll of display
- Poly carbonate body
- IP 65 from front

3. Specification

Accuracy	: Class 1.0 IEC 62053 - 21/ (Optional 0.5;0.2 IEC 62053-22)
Input Voltage	: V_a , V_b , V_c
Input Voltage Range	: 50-550V (L-L) / 50V-300V (L-N)
Isolation Voltage	: 2000V
Input Current	: I_a , I_b , I_c
Current with stand	: 10A continuous, 50A for 1 Second
Input Frequency	: 40 to 70Hz
Display Scrolling	: Automatic/Manual
Communication	: RS-485 Communication

4. Switch Description

Switch Symol	Switch Function in edit mode	Switch Function in measurement
	Increment the value of selected parameters.	Long push (for 3sec approx for Scroll ON/OFF
	Decrement the value of selected parameters.	-----
	Scrolling to the next parameter in EDIT mode	Scrolling between different measurements parameters.
	Programming Mode Entry	By pressing these two buttons user can enter into programming mode.

5. Meter Measurement Scrolling :

Display can be set as auto scroll/Manual scroll Scrolling mode can be changes from auto to manual & vice versa by long press (for 3 sec) of increment key.

In auto scroll the measurement display changes to next page automatically while in manual mode (scroll) measurement page can be selected by pressing Next key

6. LEDs Description

Respective led will glow according to the current parameter on display

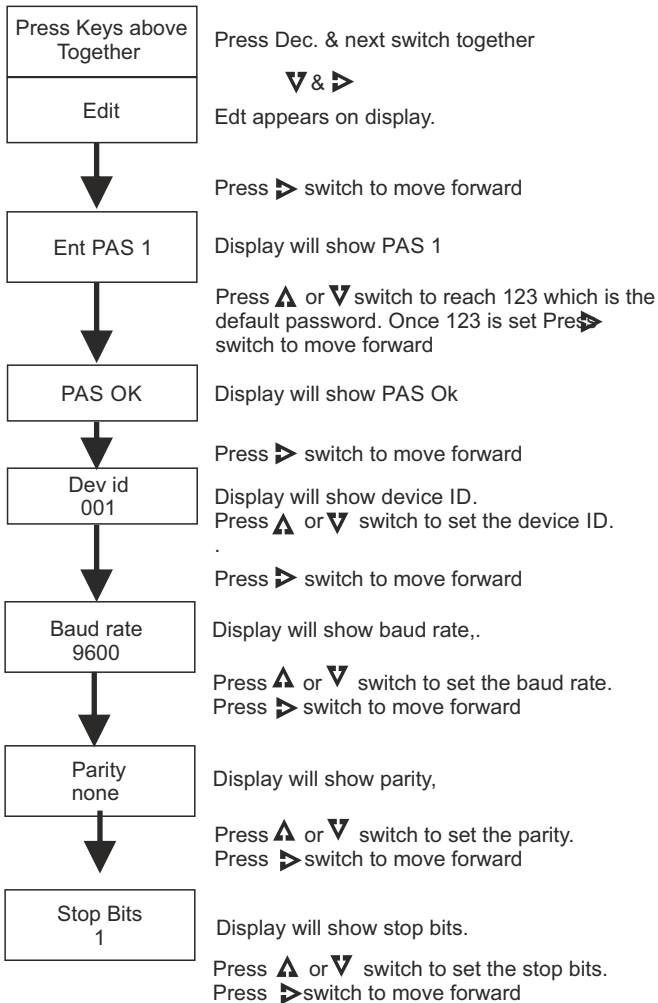
LEDs	Indication Description
● V	LINE TO NEUTRAL VOLTAGE
● A	CURRENT IN AMPERES
● PF	POWER FACTOR
● KVAh	APPARENT ENERGY
● I	SOURCE I
● II	SOURCE II
● III	SOURCE III

7. Parameter Mode

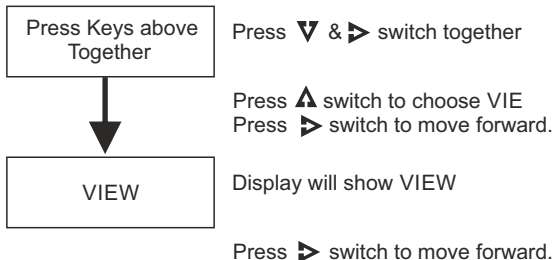
Parameter Name on Display	Explanation of Parameter	Factory Setting	Setting Range
Ent PAS (Enter password)	System settings are password protected. Password is a three digit number.	1	1-999
Dev Id	Device id for communication.	1	1-247
Baud rate	Baud Rate for communication.	9600	1200 2400 4800 9600 19200
Pari	Parity for communication.	None	Even Odd None
Stop bit	Stop Bits for communication.	1	1-2

• 8. Setting Procedure: How to Enter in Parameter Mode

- Press Dec. & next switch simultaneously. The controller shall display, "Edit".
- To enter in edit parameter mode

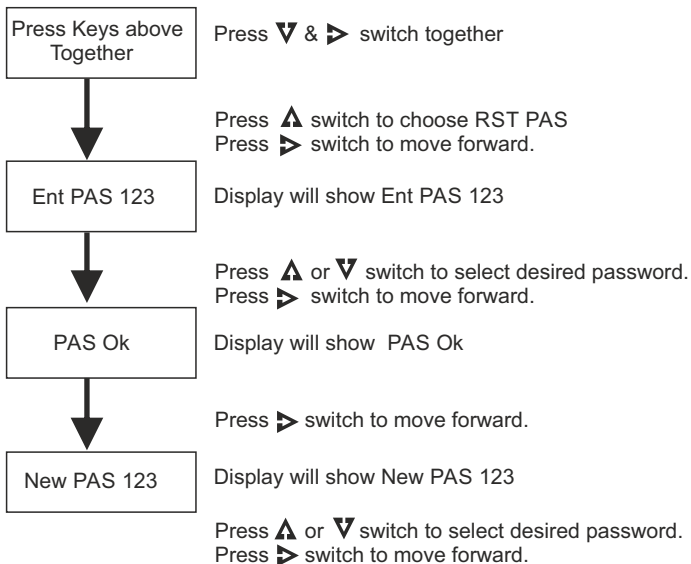


9. Setting Procedure: How to Enter in View Mode



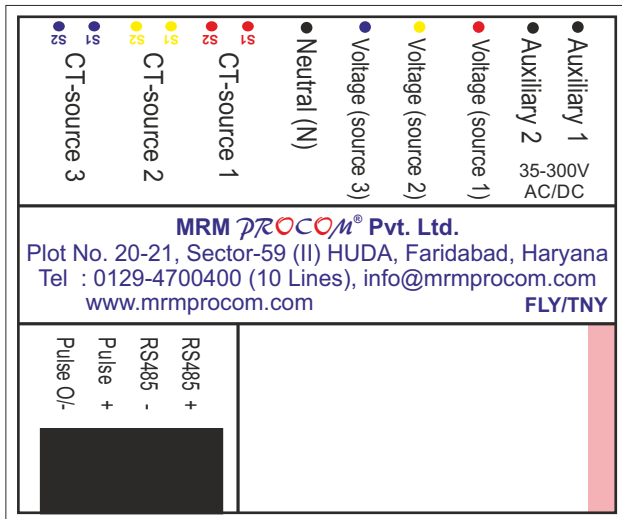
By pressing **▶** switch browse through all the set parameters one by one. Setting change is not allowed in this mode

10. Setting Procedure: How to Reset Password



Display will show PAS UPT (Password Updated)

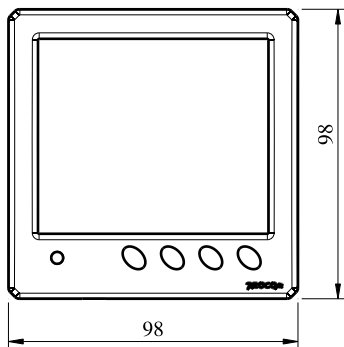
11. Terminals Diagram



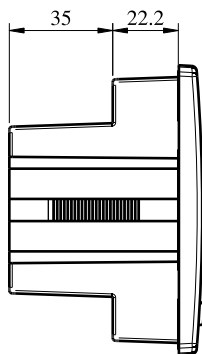
12. Terminal Numbers

Terminal No.	Description
1	CT S1 (Source 3)
2	CT S2 (Source 3)
3	CT S1 (Source 2)
4	CT S2 (Source 2)
5	CT S1 (Source 1)
6	CT S2 (Source 1)
7	Voltage (Source 1)
8	Voltage (Source 2)
9	Voltage (Source 3)
10	Neutral
11	D-
12	D+

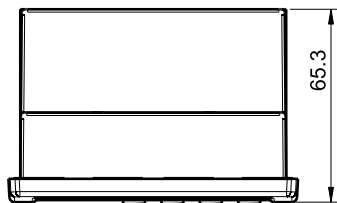
13. Dimensional Details



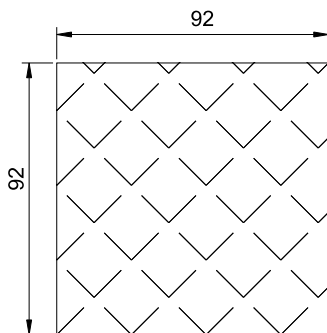
Front View



Left View



Top View



Panel Cut Out

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