Dual/Multi source Meter are advanced Energy Management and Tracking Systems designed specifically for the Building Management Systems. The instruments are based on 100pin Micro controller devices with 24 Bit Segment Delta Front end ensuring a high degree of precision in energy management.

The most suitable "cost effective" advance payment metering system offers the following features

* 32 Bit Micro controller.

* Inbuilt latching Relay with German Technology.

* Online Data Monitoring through RS 485 link.

* Optional Time of Use Tariff.

* Deduction of Daily Utility Charges.

* No additional cost of Token Generation.

* Direct entry of credit in rupees to meter without

  cumbersome keypad entries.

* No Unwanted trip offs during working days.

The other important features of the meter include-

* Double password protected online tariff management systems ensuring no additional cost.

* Billing History.

* Customer behavior pattern.

* Point of sales (PoS) history.

* On site programmable over load setting of DG back up.

* Anti tamper feature of current reversal.

Functional Features

DISPLAY FEATURES

∗ Credit remaining.

∗ Total kWh.

∗ Current Month kWh. Total

∗ Money Vended. Separate

∗ Vended Money for kWh &

∗ Utility Charges.

∗ Previous Month's Cost & kWh.

∗ Number of days before

∗ disconnection.

∗ Relay Cutoff Timer at

∗ over load.

∗ Number of attempts at over Load.

FACILITIES

∗ Unit cost change.

∗ Tariff change.

∗ Max. kVA Load Limit Change.

∗ New Customer.

TAMPER/FRAUD DETECTION

∗ Over Load

∗ Unit cost change.

∗ Tariff change.

∗ Max. kVA Load Limit Change.

∗ New Customer.

Technical Specification

| INPUT	3 Phase 4 Wire	
VOLTAGE	240 V (Ph-N)	
CURRENT	10 - 60Amp	
FREQUENCY	50 Hz ± 5 %	
BURDEN	Current /Voltage Circuit < 2.0 VA / 1.5W/8VA per phase	
DISPLAY	Customized LCD	
ACCURACY	Class 1.0	
ENVIRONMENTAL	Operating Temperature	-10˚C to +50˚C
	Storage Temperature	-25˚C to +70˚C
TIME CLOCK & CALENDAR	Normal Power Source	Mains supply
	RTC Backup Source	Lithium Battery
Dimensions (WxHxD)	175 x76x 225 mm (Approx)	
LOAD CONTACTOR	Rated at Imax minimum of 10000 operations at rated current for resistive loads	

DISPLAY PARAMETERS

Sr. No.	Symbol	Parameter
1	XXXXX.X	kWh Eb (R-Y-B)
2	XXXXX.X	kWh DG (R-Y-B)
3	XXXXX.X	kWh SL (R-Y-B)
4	XXX.X	Voltage (L-N) RN
5	XXX.X	Voltage (L-N) YN
6	XXX.X	Voltage (L-N) BN
7	XXXX.XX	R- Phase Current
8	XXXX.XX	Y- P-hase Current
9	XXXX.XX	B- Phase Current
10	X.XXX	R-Power factor
11	X.XXX	Y-Power factor
12	X.XXX	B-Power factor
13	XXXX.XX	kW(R-Active Power)
14	XXXX.XX	kW(Y-Active Power)
15	XXXX.XX	kW(B-Active Power)
16	XX.X	Frequency
17	X.XXX	Power factor R,Y,B
18	XXXX.XX	Active Power R,Y,B
19	XXXXXX $\frac{CE}{kWh}$	Current Month kWh Eb
20	XXXXXX $\frac{Cd}{kWh}$	Current Month kWh dg
21	XXXXXX $\frac{CS}{kWh}$	Current Month kWh SL
22	cr XXX^{eb}	Currrent Month Eb bill in Rs
23	cr XXX^{dg}	Currrent Month dg bill in Rs
24	cr XXX^{S2}	Currrent Month SL bill in Rs
25	cr XXXX^{ut}	Total utility charges

DISPLAY PARAMETERS

Sr. No.	Symbol	Parameter
26	trXXXX^{cr}	Current Month total bill in Rs.
27	PP XXX^{rs}	Cumulative Recharge
28	A XXXX	Balance Amount
29	XX.X $\frac{Eb}{kW}$ MD	Current Month Eb MD
30	T XX:XX:XX Eb	Current Month Eb MD Time
31	D XX:XX:XX Eb	Current Month Eb MD Date
32	XX.X $\frac{E1}{kW}$ MD	Current Month E1 MD
33	E1Time XX:XX:XX	Eb MD 1 Time
34	E1Date XX:XX:XX	Eb MD 1 Date
35	XX.X $\frac{DG}{kW}$ MD	Current Month dg MD
36	DG Time XX:XX:XX	Current Month dg MD Time
37	DG Date XX:XX:XX	Current Month dg MD Date
38	XX.X $\frac{G1}{kW}$ MD	DG MD 1
39	G1 Time XX:XX:XX	DG MD Time 1
40	XXXXXX $\frac{1E}{kWh}$	Eb kWh bill 1
41	XXXXXX $\frac{1d}{kWh}$	DG kWh bill 1
42	XXXXXX $\frac{1S}{kWh}$	SL kWh bill 1
43	1r XXX ^{Eb}	Eb Rs Bill 1
44	1r XXX ^{dg}	DG Rs Bill 1
45	1r XXX ^{SL}	SL Rs Bill 1
46	1r XXX ^{ut}	Utility Rs bill 1
47	Time XX:XX:XX	Present Time
48	Date XX:XX:XX	Present Date
49	ID XXX	Meter ID
50	Sr XXXXXX	Meter Sr.No.
51	UEr X.X	Version

Dimension Details
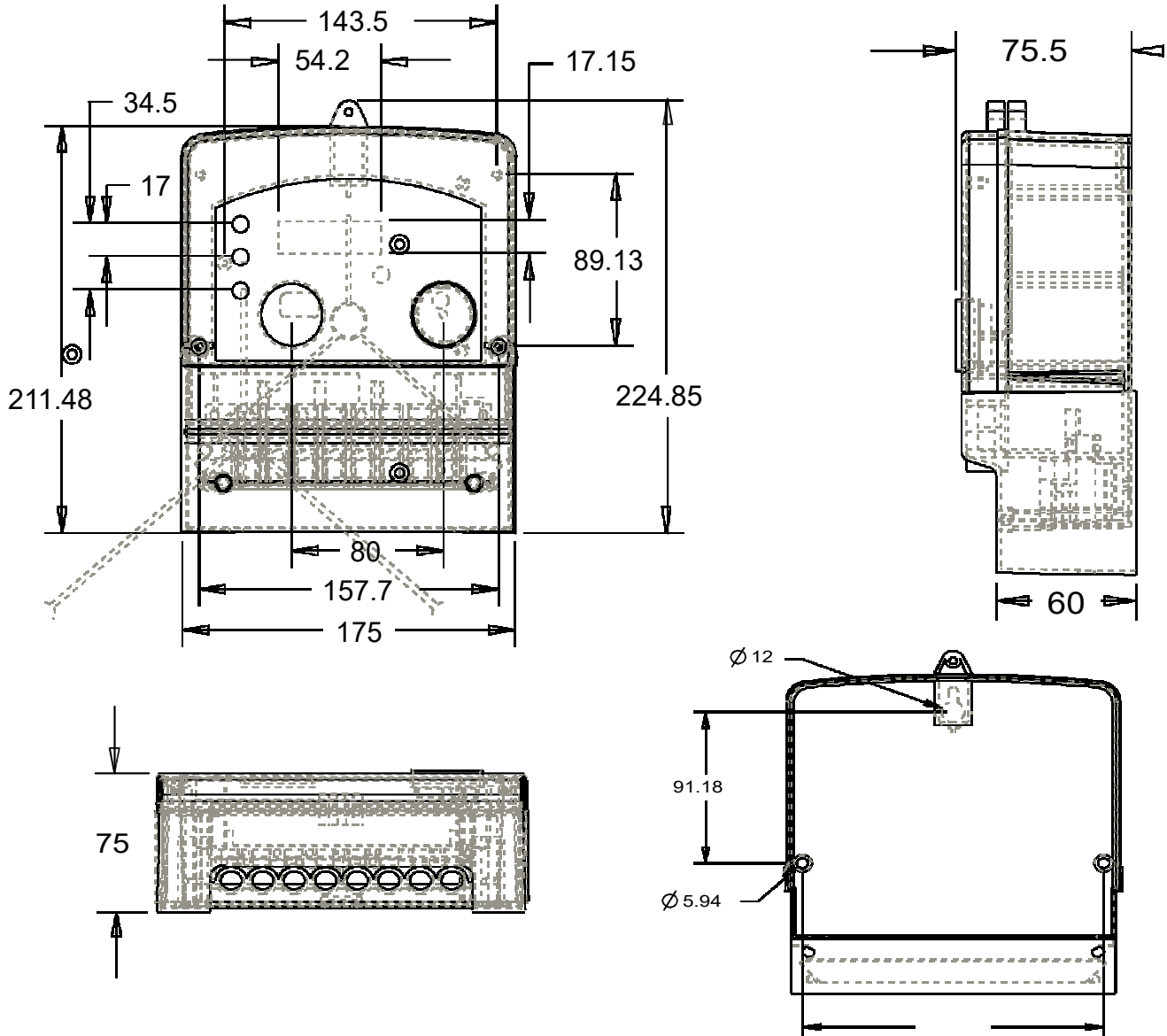
Connection Diagram

R-Phase		Y-Phase		B-Phase		Neutral	
RIn(1S)	ROut(1L)	YIn(2S)	YOut(2L)	BIn(3S)	BOut(3L)	NIn(NS)	NOut(NL)

PUSH BUTTON PROGRAMMING:-

We can only set Meter ID thru PUSH Button.

1. To set Meter ID press both key simultaneously, meter shall prompt for password. (Password is 1000)

2. Press down key, display shows P 0000 [1], now press down key again, Display shows P 1000 [1].

3. Now press up key 4 times, Display Shows ID 001, now press down key, Display shows ID 001 [1].

4. Now press down key set value of first digit from 0-9, press up key to shift next digit.