

# DIGITAL PANEL METER DC METERING

## FOUR CHANNEL DC KWH METER



### FEATURES

- Displays Bus Voltage, 4 Channel Currents (total current of all four),
- 4 channel individual kilo watt & 4 channel Energy (kwh).
- Current channel I/P via Shunt with wide range Programming options.
- Hourly logging facility of all 15 parameters for minimum 8 days with time stamp (optional).
- RTU Integration programming available on display.
- All 5 channels fully isolated. (bus voltage & current )
- Remote/Local switching of channel groups between 1,2 & 3,4
- Energy resetting at 999999K\* multiplication factor
- 16X4 ALPHANUMERIC GREEN BLUE LCD Display.
- 16X2 ALPHANUMERIC GREEN BLUE LCD Display.
- RS 485 Port (5KV Isolated) (Optional)
- Modbus Rtu Protocol (optional)
- Auto / Manual Scroll Display (User selectable)
- SMPS, TRANSFORMER Power Supply

### SPECIFICATION

#### Functions

DC BUS Voltage	: 0– 200VDC (Accuracy :- $\pm 0.5\%$ FS +1 dgt.)
DC Current	: 0-75 mV or 50mV (VIA SHUNT) (Accuracy :- $\pm 0.5\%$ FS +1 dgt.)
DC Power	: 0.000-9999 KW or MW(Accuracy :- $\pm 0.5\%$ ES +1 dgt.)
DC Energy (KWh)	: 000000 — 999999 Kwh (Accuracy Class 1 & 0.5)
Faceplate /Lens	: Polycarbonate Transparent
Case/Housing Material	: FR-ABS Black
Connectors /Terminal	: Nylon 66, 33%GF, Black/Brass
Mounting Clamps	: Sturdy, Moulded Glass filled nylon with screws.
Decimal Point	: Auto Scrolling
Polarity Indication	: Negative Polarity Indication Available On Demand
Under Range Indication	: Error Code 01 Blinking when Current Non Detectable
Dielectric Strength	: 2.5KV @50 Hz for 1 minute between Input -Auxiliary & Case - Terminals
Impulse Withstand	: 3.5.KV, 1.2/50 micro Second OR 2KV for 1 minute
Refresh Rate	: Per 8.0ms
Maximum Overload	: Voltage : 1.2 Times Continuous Current : 2 Times Continuous
Auxiliary Supply	: 36 TO 72 VOLT DC (SELF-POWERED AUXILIARY AVAILABLE)

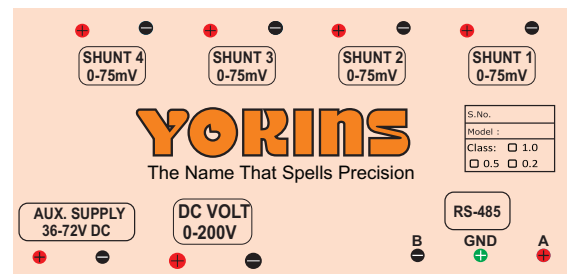
#### VA Burden (Typical)

Auxiliary	: <2.5 VA
Voltage Input	: <0.2 VA
Current Input	: <0.2 VA / CHANNEL
Metering Standard	: IEC 62053-21/22
Installation Category	: Cat II (IEC / EN61010 - 1)
Pollution	: Degree 2 (IEC / EN61010 - 1)
EMISSION1	: CISPR22 CLASS A
Fast Transient	: 4KV IEC 61000-4-4
Surge withstand	: IEC 6100-4-5
Damped Oscillatory	: IEC 6100-4-12:ESD:IEC61000-4-2
SCALE	: KV RANGE VIA PROGRAMMING POSSIBLE.
SHUNT	: 1A-50kA PROGRAMMABLE.
<b>Environment</b>	
Calibration	: 27°C $\pm$ 5°C
Operating	: 0° to 50°C, RH <70%
Storage	: -10° to 60°C, RH < 70%
Dielectric Strength	: 2.5 KV at 50 Hz for 1 mm
Insulation Resistance	: > 20 MOhms at 500 V DC

### DIMENSIONS (MM)

MODEL	Y9-PI-010
FRONT	96 X 96
DEPTH (Behind Bezel)	52
Panel Cut -Out	92 <sup>(+0.8-0.0)</sup> X 92 <sup>(+0.8-0.0)</sup>

### TERMINAL CONNECTION



\*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRES PLEASE CONTACT SALES.