

DIGITAL PANEL METER MULTI-FUNCTION METER / LOAD MANAGER/ POWER ANALYZERS



THREE PHASE MULTIFUNCTION METER

FEATURES

- 28 Parameters on 14 Display Pages In YI-542/543
- 36 Parameters on 20 Display Pages In YI-544
- Auto / Manual Scroll Display (User selectable)
- SMPS, TRANSFORMER Power Supply
- Ideal for Testing of Electrical Appliances
- User Programmable CT Ratio, PT RATIO
- TRMS Measurement
- 3 Rows of 4 Digit RED Seven Segment
- 3 Phase 4 wire, 3 Phase 3 wire Programmable .
- RS 485 Port (5KV Isolated) (Optional)
- MODBUS RTU Protocol (Optional)
- Two Relay Output for alarm can be provided.(optional)



YI-542/543



YI-544

SPECIFICATION

Functions

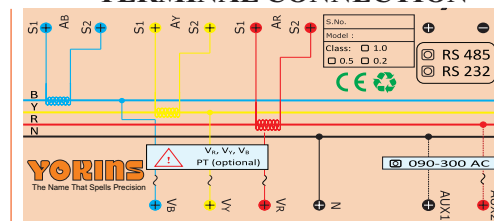
- RMS Voltage : 20 - 600Vrms (Accuracy :- $\pm 0.5\%$ FS +1 dgt.)
- RMS Current : 0.020 - 10.00Arms (Accuracy :- $\pm 0.5\%$ FS +1 dgt.)
- Active Power : 0.030 - 6.000 KW (Accuracy :- $\pm 0.5\%$ ES +1 dgt.)
- Apparent Power : 0.030 - 6.000 KVA (Accuracy :- $\pm 0.5\%$ ES +1 dgt.)
- Reactive Power : 0.030 - 6.000 KVAR (Accuracy :- $\pm 1.0\%$ ES +1 dgt.)
- Power Factor : 0.3 Lag -1.0- 0.3 Lead (Accuracy :- ± 0.01 PE +1 dgt.)
- Line Frequency : 45.00-65.00 Hz (Accuracy :- ± 0.1 Hz)
- Active Energy (KWh) : 000000.00 - 999999.99 Kwh (Accuracy Class 1,0,5)
- Apparent Energy (KVAh) : 000000.00 - 999999.99 KVAh (Accuracy Class 1,0,5)
- Reactive Energy (KVARh) : 000000.00 -999999.99 KVARh (Accuracy Class 1,0,5)
- THD (V,I) : Indicative
- 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 : L(Lagging/Inductive) or C (Leading/Capacitive)
- 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

- Refresh Rate : Per 8.0ms
- Maximum Overload : Voltage 1.2. Times Continuous
Current : 2 Times Continuous
- Auxiliary Supply : 150-300V AC, 45-270V AC /DC, 19-60V AC /DC
- VA Burden (Typical)**
- Auxiliary : <2.5 VA
- Voltage Input : <0.2 VA / Phase
- Current Input : <0.2 VA / Phase
- PT Primary Range : 50 to 500kV AC Programable
- PT Secondary Range : 50 to 500V AC Programable
- CT Primary Range : 1A to 50kA AC Programable
- CT Secondary Range : 0.5A to 5A AC Programable
- Metering Standard : IEC 62053-21/22
- Installation Category : Cat II (IEC / EN61010 - 1)
- Pollution : Degree 2 (IEC / EN61010 - 1)
- Environment
- Calibration : $27^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- 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	YI-542/543/544
FRONT	96 X 96
DEPTH (Behind Bezel)	52
Panel Cut -Out	92 (+0.8-0.0) x 92 (+0.8-0.0)

TERMINAL CONNECTION



YI-542/543/544

ORDERING INFORMATION

MODEL	PARAMETERS DISPLAYED	ACCURACY CLASS	AUX SUPPLY
YI-542	Voltage(Line to Line) Voltage(Line to Neutral) Current Frequency (Class 0.2) Power Factor(Class 0.5) Active Power(W)	Apparent Power(VA) Active Energy(kWh) RPM Run Hour Load Hours	45-270V AC /DC 19-60V AC /DC
YI-543	All Parameters of YI-542 Reactive Power(VAR) Reactive Energy (kVARh) Apparent Energy (kVAh)	1.0 0.5	45-270V AC /DC 19-60V AC /DC
YI-544	All Parameters of YI-543 VTHD ITHD	1.0 0.5	45-270V AC /DC 19-60V AC /DC

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



E-Mail: sales@yokins.com | Tel: 011-40159888
www.yokins.com