

18 months  
Warranty



# iM 5000



- ▶ Accuracy Class 1.0 IEC 61036 / CBIP 88 (0.5 Option)
- ▶ True RMS Measurement
- ▶ Simultaneous Sampling of Volts & Amps
- ▶ Best Parameters Grouping /Bright Displays
- ▶ Simultaneous Display of 4 Parameters or 7 Parameters
- ▶ User Programmable Password Protection
- ▶ Auto-Scaling of Kilo, Mega, Giga and Decimal Point
- ▶ Neutral Current Display, RPM Measurements
- ▶ Clearance and Creepage Distance Meets UL 508 Safety Standard
- ▶ Digital Input (upto 4 inputs optional)
- ▶ Analog Voltage Input (0-1V)/Current Input (0-20mA or 4-20mA), Programmable to any Full Scale Value (Optional)
- ▶ Digital Outputs (4 Potential Free Contacts-Optional)
- ▶ THD Measurement Optional

## PARAMETERS

### Basic

- ▶ Line to Neutral Voltage (VLN Avg, VR-N, VY-N, VB-N)
- ▶ Line to Line Voltage (VLL Avg, VR-Y, VY-B, VB-R)
- ▶ Line Current (IAvg, IR, IY, IB)
- ▶ Frequency (Hz, RPM)
- ▶ V & I Phase Angle (VR, VY, VB, IR, IY, IB, IN)

### Power

- ▶ Active Power (W Tot, WR, WY, WB)
- ▶ Apparent Power (VA Tot, VAR, VAY, VAB)
- ▶ Reactive Power (VAr Tot, VARR, VARY, VARB)
- ▶ Power Factor (PF Avg, PFR, PFY, PFB)

### Energy / Integrated

- ▶ Active Energy (Wh)
- ▶ Apparent Energy (VAh)
- ▶ Reactive Energy (VARh-Ind, VARh-Cap)
- ▶ Load Hours (LH, ON Hrs.)
- ▶ Old Energy (Wh, VAh, VARh Ind/Cap)

### Demand (Programmable to any one of them) Optional

- ▶ Active Power (Wh)
- ▶ Apparent Power (VAh)
- ▶ Current Average (IAvg)

 **INFOLLIANCE**  
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## TECHNICAL SPECIFICATIONS

### Accuracy:

Class 1 (Default) IEC 61036, CBIP 88,  
Class 0.5 (Option).

### Sensing/Measurement

True RMS, 1 Sec update time.  
4 Quadrant Power & Energy(RD Option)

### Input voltage

4 Voltage inputs (VR, VY, VB, VN)  
Programmable 110 or 415V LL Nominal  
(Range 80 to 550V LL) Primary  
Programmable upto 999 kV.

**Burden** - 0.2VA Max. per phase.

### Input current

Current inputs (AR, AY, AB) 50mA - 6A  
(Field configurable 1A or 5A) Primary  
Programmable upto 99 kA.

**Overload** - 10A max continuous,  
50A max for 3 Sec

**Burden** - 0.2VA Max. per phase.

### Aux-Supply

80 - 300V AC/DC, 40-70Hz.  
(Control Power) 48V DC Option.

**Burden** - 4VA Max

### Display Resolution

LCD-8 rows, 8 digits,  
(Integrated 7 digits, 8 mm height)

### CT PT Ratio

Max. 2000 MVA Programmable

### Communication (Optional)

RS485 serial channel connection  
Industry standard Modbus RTU protocol  
(RS232 optional).

**Baud rate** - 1200 bps to 19200 bps.  
(Preferred 9600bps)

**Isolation** - 2000 volts AC isolation  
for 1 minute between communication  
and other circuits.

### Weight (Approx)

Unpacked: 300 gms

Shipping: 400 gms