

iPFC



Contact for certification details

INTELLIGENT

POWER FACTOR CONTROLLER

Current | Voltage | Frequency | PF | VAR | 6/8/12 stage control



INTELLIGENT DEVICE TO
MAINTAIN THE POWER FACTOR
IN REQUIRED RANGE

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ELMEASURE[®]
Possibilities...Infinite

Features:

- Three phase sensing.
- Intelligent Power Factor Controlling based on the capacitor bank switching history (Number of operations, ON time) improves the capacitor life time.
6 or 8 or 12 switching relay outputs.
- Automatic or manual control (manual control with power backup option).
 - User programmable:
 - Star/Delta.
 - Lead and Lag limits.
 - PT and CT ratios.
 - CT secondary.
 - Minimum switch ON time (4-999 seconds).
 - Minimum discharge time (4-999 seconds).
 - Minimum capacitor on time (4-999 seconds).
 - Minimum sensing current for controlling operation 100mA - 500mA.
 - User programmable capacitor value.
- Fault detection (Over compensation, Under compensation, Over voltage, Over current, Under voltage, Under current, Over harmonics for voltage and current).
- Displays VLL, VLN, Amps (Average and Phasewise) Frequency, W, PF, VAR(Total and Phasewise) Wh, PF Avg.
- Four quadrant operation.
- RS 485 communication interface (Optional).

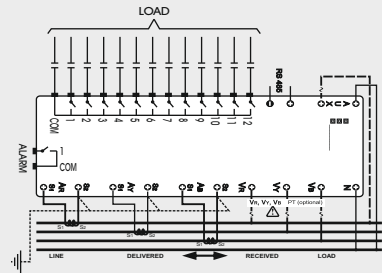
Applications:

- In all Incomers.
- Fixed power factor corrections individual (e.g. motor, transformers, lighting, etc.)
- Group fixed power factor correction (several equipments connected in a group).
- Capacitor banks of tuned and detuned.
- Harmonic trap applications (e.g. UPS, Frequency Drives and Converters, etc.)

Advantages

- Three phase sensing gives accurate measurement of PF.
- Fault Detection (Over compensation, Under compensation, Over voltage, Over current, Under voltage, Under Current, Over harmonics for voltage and current).
- Automatic or Manual Control (manual control with power backup option).
- Increased capacitor life - capacitor switching based on history - ON time / number of switching.

Connection Scheme:



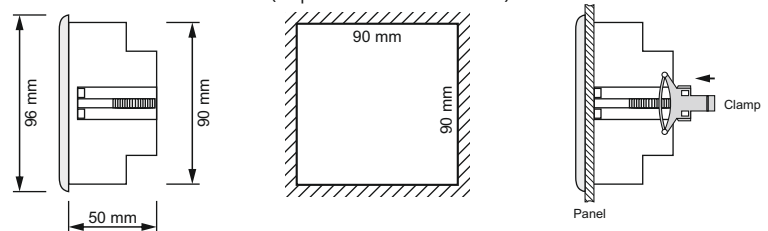
Technical Specification:

Specification	Description
Accuracy:	Class 1.0 (default) as per IEC 62053-21, Class 0.5 as per IEC 62053-22 (Optional).
Sensing/ Measurement:	True RMS, 1 Sec update time. 4 Quadrant Power & Energy.
Input voltage:	4 Voltage inputs (VR, VY, VB, VN) Programmable 110 or 415V LL Nominal (Range 80 to 550V LL) Primary Programmable up to 999 kV. Burden: 0.2VA Max. per phase.
Input Frequency:	45 65 Hz
Input current:	Current inputs (AR, AY, AB) 50mA - 6A (Field configurable 1A or 5A). Primary Programmable up to 99 kA. Overload: 10A max continuous, 50A max for 3 Sec. Burden: 0.2VA Max. per phase.
Aux-Supply :	(Control Power): 180 - 300V AC/DC, 40-70Hz. Burden: 10VA Max.
Display Resolution:	1 row, 6 digits, (Integrated 6 digits) 10mm.
CT PT Ratio Max:	2000 MVA Programmable.
Communication:	Master to PC. RS485 serial channel connection, Industry standard Modbus RTU protocol (RS232 optional). Baud rate: 4800 bps to 19200 bps (Preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.
Contact rating:	SPST, 2A @ 240V.
Weight:	Unpacked: 350 gms, Packed: 450 gms.
<div>ECO friendly lead free</div> <div>18 months warranty</div>	

Note: Additional error of 0.1% of full scale, for meter input current below 500mA

Mechanical Specification:

Dimension Bezel: 96 x 96 mm (Depth 50mm behind Bezel)



Range of Products: Building Energy Management System (BEMS) | EMS | Demand Controller | Multifunction Meters | Electronic Energy Meters | Dual Energy Meter | Digital Panel Meters | Automatic Changeover with Current Limiter (ACCL) | Power Factor Controller (PFC) | Earth Leakage Relay (ELR) | Earth Fault Relay (EFR) | Gateway | Branch Monitoring Unit | Smart Input Output | Transducers | Converters



Sales Offices: BANGALORE | CHENNAI | COIMBATORE | MUMBAI | DELHI | HYDERABAD | USA | UAE

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