



Key Features

- True RMS Measurement
- High/ low V, A, Hz, W, VA, VAr, PF value storage
- Simultaneous sampling of volts & amps
- Compact size and Weight
- Universal Auxiliary supply (80 - 300 VAC / DC) supply
- Universal Voltage Input (50 - 550 VAC) and Current Secondary (0.05A to 6A)

Introduction

Whirlybird WEM 3400 is multiple usage AC Energy Meter. This highly efficient Energy Meter is used for specific technical application such as Telecom, Solar, Defense etc. The ACEM has RS485 Communication interface to push data of device. The device comes with Class 1 accuracy and capturing all major data required to be captured from energy Meter.

Specifications

| Technical Specifications | |
|----------------------------------|---|
| Parameter | Range |
| Accuracy | Class 1 (Default) IEC 61036, CBIP 88, Class 0.5, 0.2 (Option) |
| Sensing / Measurement | True RMS, 1 Sec update time 4 Quadrant Power & Energy (RD Option) |
| Input voltage (Measurement) | 4 Voltage inputs (VR, VY, VB, N) Programmable 110 or 415V LL Nominal |
| Burden | 0.2VA Max. per phase |
| External Fuse Rating | 2 Amps |
| Input Current (Measurement) | Current inputs (AR, AY, AB) 50mA - 6A Primary Programmable up to 99 kA |
| Overload Burden | 10A max continuous, 50A max for 3 Sec 0.2VA Max. per phase |
| Auxiliary Supply (Control Power) | 80 to 300V AC, 40-70Hz 80 to 300V DC (Default) |
| Burden | 5VA Max |
| External Fuse Rating | 200mA |
| CT PT Ratio Max | 2000 MVA Programmable |
| Protection Class | 3 |
| Humidity | 5% to 95% non-condensing |
| Pollution Degree | 2 (As per IEC 61010) |
| Altitude | Below 2000 mts |
| Insulation | Double Insulation (As per IEC 61010-1) |
| Ingress Protection | IP 51 As per IEC 60529 |
| Operating Temperature | -10°C to + 55°C (14°F - 131°F) |
| Storage Temperature | -25°C to +70°C (-13°F - 158°F) |
| Measurement Category | CAT III (As per IEC 61010) |
| Wire Gauge (Connecting wires) | 12-14 swg (2.6 to 2.0mm ²). 2.5mm ² U cut lugs to be used. |

Communication

RS 485 serial channel connection Industry standard Modbus RTU protocol (RS232 optional)

Baud rate

2400 bps to 19200 bps (preferred 9600 bps)

Isolation

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