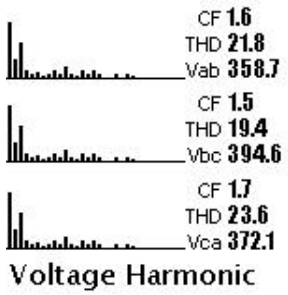
**W106 Series**
**Power Quality Analyzer**






| Measure, display and store | |
|---|---|
| Voltage | Line |
| | Phase |
| | Average |
| | Unbalance |
| Current | Line |
| | Average |
| | Neutral |
| | Unbalance |
| Active Power | Phase |
| | Total |
| Reactive Power | Phase |
| | Total |
| Apparent Power | Phase |
| | Total |
| Power Factors | APF (apparent PF) |
| | TPF (True PF) |
| | DPF (Displacement PF) |
| | DhPF (Distortion PF) |
| Harmonic Even , Odd | 2 to 31st Line Voltage |
| | 2 to 31st Line Current |
| | 2 to 31st Neutral Current |
| Total Harmonic Distortion | Line Voltage |
| | Line Current |
| Total Demand Distortion | Line Current |
| Crest Factor | Line Voltage |
| | Line Current |
| K Factor | Line Current |
| Voltage Sag | |
| Voltage Swell | |
| Demand | $P_{1,2,3}$ |
| | $\sum P$ |
| | $Q_{1,2,3}$ |
| | $\sum Q$ |
| Frequency | |
| Temperature | |
| Energy metering | Active |
| | Reactive |
| | 4 Tariffs |
| | 7 schedules |
| Maximeter Minimeter | Instantaneous |
| | Average |
| | Daily |
| | Absolute |
| **Event Recorder** | |
| Power Outage/ Restore | |
| Input voltage Outage/ Restore | |
| more than 10% fluctuations in voltage or current in the last 3 sec, from 5 sec before to 25 sec after, with 100 msec resolution | |

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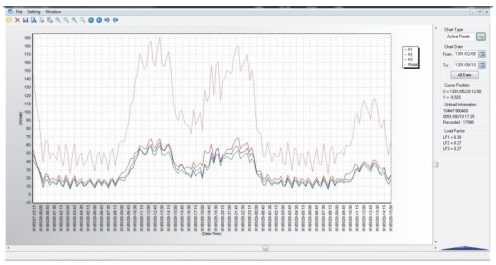

| | |
|---|---|
| **Supported Networks** | |
| up to 400 KV | |
| CT up to 5000 A,Rogowski coil up to 20kA | |
| **Electrical Wiring** | |
| 2 or 3 PTs | |
| 2 or 3 CTs or rogowski coil | |
| **Data Logging** | |
| Records | 1 min to 1 hour period |
| Maximeter | 1 min to 1 hour period |
| **Communication** | |
| Offload stored data on USB flash disk | |
| RS485 communication port supporting MODBUS protocol | |
| **Relay Functions** | |
| Over Voltage | |
| Under Voltage | |
| Over Current | |
| Over Active Power | |
| Under Active Power | |
| Over Reactive Power | |
| Over Voltage THD | |
| Over Current THD | |
| **Power Supply** | |
| Wide | 80-500 VAC / 100-500 VDC |
| Standard | 80-280 VAC / 100-300 VDC |
| **Other Features** | |
| Fault CT polarity correction | |
| Memory 4 GB | |
| 160x160 pixel graphic LCD / 32x32 pixel LED | |
| 1000 Impulse/kwh Energy pulse | |
| Daylight saving option | |
| Software calibration | |
| Graphical windows based software for power consumption management | |
| **Standards** | |
| IEC61000-4-7, IEC62053-21, IEC62053-22, IEC62053-23, EN50470-1, EN50470-3, ANSI C12.20 and IEEE1459 | |
| **Mechanical Parameters** | |
| Dimensions | 103 x 103 x 70 mm |
| Mounting | Panel mounting |
| Weight | ≈ 400 gr |
| **Environmental Conditions** | |
| Operating Temperature | -20 to +70 °C |
| Storage Temperature | -30 to +80 °C |

**Electrical Characteristics**

| Parameters | Accuracy | Resolution | Measuring Range | Display Range |
|---|---|---|---|---|
| **Voltage (P-N)** | 0.1% | 0.1 | 0-300 V | 0-250 kV |
| **Current** | 0.1% | 0.1 | 0-6 A | 0-6000 A |
| **Active Power** | 0.2% | 0.1 | 0-5400 W | 0-10 MW |
| **Reactive Power** | 0.2% | 0.1 | 0-5400 VAR | 0-10 MVAR |
| **Apparent Power** | 0.2% | 0.1 | 0-5400 VA | 0-10 MVA |
| **Power Factor** | 0.2% | 0.1 | | |
| **Frequency** | 0.1 Hz | 0.1 | 45.0-55.0 Hz | 45.0-55.0 Hz |

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| Models | | | | |
|---|---|---|---|---|
| | W106e | W106s | W108e | W108s |
| $V_L$ | • | • | • | • |
| $V_{ph}$ | • | • | • | • |
| $V_{avg}$ | • | • | • | • |
| $V_{UN}$ | • | • | • | • |
| $I_L$ | • | • | • | • |
| $I_N$ | • | • | • | • |
| $I_{avg}$ | • | • | • | • |
| $I_{UN}$ | • | • | • | • |
| $P_{ph}$ | • | • | • | • |
| $P_T$ | • | • | • | • |
| $Q_{ph}$ | • | • | • | • |
| $Q_T$ | • | • | • | • |
| $S_{ph}$ | • | • | • | • |
| $S_T$ | • | • | • | • |
| APF | • | • | • | • |
| TPF | • | | • | |
| DPF | • | | • | |
| DhPF | • | | • | |
| $31^{st}$ Harmonic | • | | • | |
| $15^{st}$ Harmonic | | • | | • |
| THD V | • | • | • | • |
| THD I | • | • | • | • |
| TDD I | • | | • | |

| | | | | |
|---|---|---|---|---|
| CF V | • | | • | |
| CF I | • | | • | |
| KF I | • | | • | |
| Sag / Swell | • | | • | |
| Demand $P_{1,2,3}$ | • | | • | |
| Demand $\sum P$ | • | • | • | • |
| Demand $Q_{1,2,3}$ | • | | • | |
| Demand $\sum Q$ | • | • | • | • |
| Frequency | • | • | • | • |
| Temperature | • | • | • | • |
| Event Recorder | • | | • | |
| Energy Metering | • | • | • | • |
| Daily Maximeter | • | • | • | • |
| Absolute Maximeter | • | • | • | • |
| Relay | • | | • | |
| Wide Supply Range | • | | • | |
| LCD Display | • | • | | |
| LED Display | | | • | • |

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