

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / CONZERV

Schneider Electric / Konzerv EM6400 Power Meter

Conzerv EM6400 Series Multifunction Power Meter The Conzerv EM6400 (Schneider Electric EasyLogic EM6400 / EM6400NG family) is a 96 × 96 mm panel multifunction meter for 3-phase electrical instrumentation and load management. It replaces analog meters in PDUs, switchboards, UPS, gensets, and MCCs. True-RMS sampling is 64 samples/cycle. Accuracy classes include Class 1, 0.5S, and 0.2 for active energy depending on model. RS-485 Modbus RTU is a common option. LED 7-segment display with three buttons. Retrofit analog-meter replacement; energy accounting and demand; THD/harmonics to 15th (NG+); PLC/DCS/BMS via Modbus; panel load management. The Conzerv EM6400 (Schneider Electric EasyLogic EM6400 / EM6400NG family) is a 96 × 96 mm panel multifunction meter for 3-phase electrical instrumentation and load management. It replaces analog meters in PDUs, switchboards, UPS, gensets, and MCCs. True-RMS sampling is 64 samples/cycle. Accuracy classes include Class 1, 0.5S, and 0.2 for active energy depending on model. RS-485 Modbus RTU is a common option. LED 7-segment display with three buttons. Retrofit analog-meter replacement; energy accounting and demand; THD/harmonics to 15th (NG+); PLC/DCS/BMS via Modbus; panel load management.



MODEL

**Schneider Electric
/ Konzerv EM6400**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EM6400

LISTING

<https://aumictechlabs.com/products/em6400-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric Conzerv EM6400 is a three-phase multifunction power and energy meter engineered for detailed electrical parameter measurement and load management across industrial, commercial, and utility installations. It replaces analog meters with precision digital metering in a compact form factor, integrating into custom panels, switchboards, switchgear, gensets, motor control centers, and UPS systems.

Technical Specifications

Measurement Capabilities The EM6400 delivers true RMS measurements across all electrical parameters: per-phase voltage (line-to-neutral and line-to-line), current, demand, active power (W), apparent power (VA), and reactive power (VAR). Integrated energy totals include kWh, kVARh, and kVAh. Four-quadrant energy measurement captures bi-directional, absolute, and net energy flow. Advanced diagnostics include neutral current, frequency, power factor (signed, four-quadrant), load percentage, voltage and current unbalance, phase angle, on-hours, run-hours, and interruption counts. Harmonic analysis extends to the 15th harmonic with individual component measurement and total harmonic distortion (THD) for both voltage and current per phase. Phase-wise load percentage relative to full scale (%A FS), average current (Iavg), and average voltage (Vavg) are logged continuously.

Accuracy Performance Active energy accuracy meets Class 1.0 per IEC 62053-21 and Class 0.5S per IEC 62053-22. Reactive energy conforms to Class 2 per IEC 62053-23. THD and harmonic accuracy achieve Class 5P per IEC 61557-12. Standalone measurements specify $\pm 0.5\%$ for current, voltage (L-N and L-L), and power; $\pm 0.05\%$ for frequency; and ± 0.01 for power factor.

Electrical Specifications Auxiliary supply range: 44 to 300 V ac/dc, 45–65 Hz. Input voltage range: 80 to 600 V ac line-to-line nominal (35 to 600 V ac L-L operating); 110 V ac nominal line-to-neutral (35 to 277 V ac L-N operating). Rated current options: 5 A or 1 A. Current measurement range: 50 mA to 6 A. Maximum permanent overload: 750 V ac L-L. Impulse voltage withstand: 6 kV (1.2/50 μ s, IEC 60060). Surge withstand: 4 kV IEC 61000-4-5. Fast transient: 4 kV IEC 61000-4-4. ESD immunity: 15 kV air discharge, 8 kV contact discharge (IEC 61000-4). Communications RS-485 interface for remote data acquisition and system integration.

Features & description

From manufacturer datasheet

Features

- 96 × 96 mm LED multifunction power meter
- True RMS, 64 samples per cycle
- Voltage 35-600 V AC L-L measured range (NG+); CT 5 mA-6 A class
- Class 1 / 0.5S / 0.2 active energy by catalog code
- RS-485 Modbus; optional pulse
- Burden less than 0.2 VA voltage and less than 0.1 VA current (NG+)

EM6400 Characteristics / Specifications

PARAMETER	VALUE
Model	EM6400
Manufacturer	Conzerv / Schneider Electric
Instrument Type	Multifunction Power Meter
Series	EM6400 / EasyLogic EM6400NG+
Alias	EM6400; EM-6400; EM6400NG
Panel Size	96 × 96 mm
Display	7-segment LED, 3 fields of 4 characters, 12 digits 14.2 mm (NG+ datasheet)
Keypad	3 button
Weight NG	about 600 g
Depth NG	73 mm max
IP Front NG	IP51 family listing
Sampling	true RMS, 64 samples per cycle
Voltage Accuracy Family	+/-0.5 percent
Current Accuracy Family	+/-0.5 percent
Power Accuracy Family	+/-0.5 percent
Frequency Accuracy Family	+/-0.05 percent
Power Factor Accuracy Family	+/-0.01
Active Energy Classes	Class 1 IEC 62053-21; Class 0.5S and Class 0.2 IEC 62053-22 (model dependent)
Reactive Energy	Class 2 IEC 62053-23
THD Harmonics NG	Class 5P to 15th IEC 61557-12
Measured Voltage LL	35 to 600 V AC
Permanent Overload Voltage	750 V AC L-L
Voltage Impedance	at least 5 MOhm
Current Measure	5 mA to 6 A class (5 to 6000 mA datasheet)

PARAMETER	VALUE
Current Withstand	12 A continuous; 50 A 10 s/hr; 500 A 1 s/hr
Current Impedance	less than 0.3 mOhm (NG+)
Frequency	45 to 65 Hz
Voltage Burden	less than 0.2 VA at 240 V AC L-N
Current Burden	less than 0.1 VA at 6 A
Control Power AC	44-277 V AC +/-10 percent, less than 6 VA at 277 V
Control Power DC	44-277 V DC +/-10 percent, less than 2 W at 277 V
Ride Through AC	100 ms typical at 120/277 V
Operating Temperature	-10 C to +60 C
Humidity	5 to 95 percent RH noncondensing
Altitude	less than or equal to 2000 m
Pollution Degree	2
Installation Category	III
Communication	RS-485 Modbus 4800 to 38400 bps, 2500 V isolation (NG+ RS-485)
Wiring	user programmable 3-phase configurations
Voltage Inputs Count	4 (V1 V2 V3 VN) on EM6400 series listings Notes Specs from Schneider EasyLogic EM6400NG+ manuals and Conzerv EM6400 series descriptions. Original EM6400 versus NG+ accuracy class is order-code specific. Confirm Class 1 versus 0.5S/0.2 and RS-485 option on the nameplate.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	10 C to +60 C
Operating Temperature	10 C to +60 C
Humidity	5 to 95 percent RH noncondensing
Altitude	less than or equal to 2000 m
Pollution Degree	2
Installation Category	III
Communication	RS-485 Modbus 4800 to 38400 bps, 2500 V isolation (NG+ RS-485)
Wiring	user programmable 3-phase configurations
Voltage Inputs Count	4 (V1 V2 V3 VN) on EM6400 series listings Notes Specs from Schneider EasyLogic EM6400NG+ manuals and Konzerv EM6400 series descriptions. Original EM6400 versus NG+ accuracy class is order-code specific. Confirm Class 1 versus 0.5S/0.2 and RS-485 option on the nameplate.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	EM6400
Manufacturer	Conzerv / Schneider Electric
Instrument Type	Multifunction Power Meter
Series	EM6400 / EasyLogic EM6400NG+
Alias	EM6400; EM-6400; EM6400NG
Panel Size	96 x 96 mm
Display	7-segment LED, 3 fields of 4 characters, 12 digits 14.2 mm (NG+ datasheet)
Keypad	3 button
Weight NG	about 600 g
Depth NG	73 mm max
IP Front NG	IP51 family listing
Sampling	true RMS, 64 samples per cycle
Voltage Accuracy Family	+/-0.5 percent
Current Accuracy Family	+/-0.5 percent
Power Accuracy Family	+/-0.5 percent
Frequency Accuracy Family	+/-0.05 percent
Power Factor Accuracy Family	+/-0.01
Active Energy Classes	Class 1 IEC 62053-21; Class 0.5S and Class 0.2 IEC 62053-22 (model dependent)
Reactive Energy	Class 2 IEC 62053-23
THD Harmonics NG	Class 5P to 15th IEC 61557-12
Measured Voltage LL	35 to 600 V AC
Permanent Overload Voltage	750 V AC L-L
Voltage Impedance	at least 5 MOhm
Current Measure	5 mA to 6 A class (5 to 6000 mA datasheet)
Current Withstand	12 A continuous; 50 A 10 s/hr; 500 A 1 s/hr

PARAMETER	VALUE
Current Impedance	less than 0.3 mOhm (NG+)
Frequency	45 to 65 Hz
Voltage Burden	less than 0.2 VA at 240 V AC L-N
Current Burden	less than 0.1 VA at 6 A
Control Power AC	44-277 V AC +/-10 percent, less than 6 VA at 277 V
Control Power DC	44-277 V DC +/-10 percent, less than 2 W at 277 V
Ride Through AC	100 ms typical at 120/277 V
Operating Temperature	-10 C to +60 C
Humidity	5 to 95 percent RH noncondensing
Altitude	less than or equal to 2000 m
Pollution Degree	2
Installation Category	III
Communication	RS-485 Modbus 4800 to 38400 bps, 2500 V isolation (NG+ RS-485)
Wiring	user programmable 3-phase configurations
Voltage Inputs Count	4 (V1 V2 V3 VN) on EM6400 series listings

Notes

Specs from Schneider EasyLogic EM6400NG+ manuals and Conzerv EM6400 series descriptions. Original EM6400 versus NG+ accuracy class is order-code specific. Confirm Class 1 versus 0.5S/0.2 and RS-485 option on the nameplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.