

Features

- The EM8000 is a three-phase, multi-channel, multi-function Ampere/Volt demand meter suitable for use in single-phase and multi-phase applications.
- Multi-channel submetering—up to 36 single-phase, 18 two-phase or 12 three-phase submeters in a single, compact device. Any combination of single-, two- and/or three-phase loads can be monitored up to a total of 36 current inputs.
- 2-row, 16 character backlit LCD display for easy set-up and programming.
- Data recorders; programmable periodical data logs separate for each submetered point. Embedded programmable controller (4 control set points, programmable thresholds and delays) separate for each metered point. Event recorder for logging internal diagnostic events and set point operations.
- Time of use, 4 energy/demand registers x 4 tariffs, 4 seasons x 4 types of days, 8 tariff changes per day, easy programmable tariff schedule.
- Current sensors available in both split and solid-core configurations for increased flexibility in installation.
- ANSI C12.20 Class 10/20 0.25 Precision (Active Energy). UL Listed for US & Canada, CE, ISO, VNIIMS. Compliant with ANSI and IE specifications. Approved by NY State/NY City PSC, MET Labs, CE, ISO and VNIIMS.



Overview

H2O Degree's EM8000 is a multiple branch circuit electric meter that collects granular energy intelligence data for tenant billing, cost allocation and energy management.

The device can accommodate up to 36 submetering points, giving total flexibility for configuration of up to 36 single-phase, 18 two-phase, 12 three-phase or any combination thereof.

The EM8000 is ideal for submetering applications in apartment and multi-family facilities.

The EM8000 is available with both split & solid core current sensors for increased flexibility in installation.

Ordering Information

Model	Description
EM8000	EM8000 Branch Circuit Meter
CT8000-SOL-100	100 Amp Solid Core CT for use with EM8000
CT8000-SPL-100	100 Amp Split Core CT for use with EM8000

* Consult factory for other current transformer options.

Technical Specifications

Input Ratings

PARAMETER	VALUE
Nominal frequency	50/60Hz
AC VOLTAGE	4 wires: 3 phases + neutral
Maximum Line to Neutral voltage	320V
Maximum Line to Line voltage	552V
Burden per phase	<1.5W
Isolation	2.5 kV RMS, 60Hz, 1 min Impulse 6kV
PT ratio	1-6500
AC CURRENT	36 current circuits
Nominal current	50% of HACR Rating
Maximum input direct current	100% of HACR Rating
Maximum momentary overcurrent	3000% of HACR Rating
Burden per phase	< 0.1VA
Isolation	2.5 kV RMS, 60Hz, 1 min
Primary current	1-10000A
HARDWARE	
LCD display	2 Rows, 16 digits in each
Push buttons	4
Non-Volatile Memory storage life	20 years
RTC storage upon loss of power	24 Hours minimum, 1 Week typical
Voltage inputs terminal	10 AWG Max.
Weight	1.85 Kg

Environmental Conditions

Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-25°C to 80°C (-13°F to 176°F)
Humidity	0 to 95% non-condensing

Electric Diagram

