STRIKE
TECHNOLOGIES

ENERMAX +
ENERGY AND DEMAND METER

The Enermax + three phase energy and demand meter measures four quadrants of power and energy and is fully user configurable.

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GENERAL INDUSTRY • UTILITIES • MINING

OPERATIONAL INFORMATION & SPECIFICATIONS

Enermax+

The Enermax+ has been in existence for over a decade as a follow up model of the very successful Enermax E-SERIES energy and demand meter. Most major utilities have enjoyed accurate and successful billing and check metering at Large Power Users, such as industries and mining.

Through accurate metering, the users can improve their revenue protection substantially.

The installation of an Enermax+ is simple and guarantees accurate results over an extended period.

Standard meters

Manufactured and supported in South Africa

E+MA-654000 (4 wire, 63.5V L-N)
E+MA-153000 (3 wire, 110V L-L)
E+MA-454000 (4 wire, 220V L-N)

Why buy an Enermax+

The Enermax+ is designed, manufactured and supported in South Africa to meet the needs of our harsh climate.

The Enermax+ offers the user "Time of Use" metering, powerful data profiling, modular communication and comprehensive audit facilities.

The Enermax+ Watt hour accuracy is Class 0.5 and reactive energy accuracy of Class 2.0.

The Enermax+ offers the user remote communication options to the meter via several channels.

The Enermax+ offers new Software and Firmware releases on a regular basis free of charge as part of the overall package.

Key Features and Functions

- 1(2)A or 5(10)A CT inputs can be user selected.
- Comprehensive 4 quadrant metering.
- Large 2 line alphanumeric LCD display - programmable text - auto scroll option.
- 8 fixed display menus and 8 custom menus.
- 3 individually programmable phase voltage monitors - Front panel alert for "lost phase voltage" - can be included in the event logging function.
- Extensive instantaneous parameters (voltage, current, PF, etc) now also include line frequency and meter temperature.
- 3 programmable multifunction solid state relay outputs for steady state or pulsed control.
- 3 programmable, multifunction digital inputs for control, event logging or pulse counting.
- Block demand periods adjustable from 1 to 60 minutes in integer sub-multiples.
- Real-time clock can operate from either the internet crystal frequency, or line frequency.
- Future firmware enhancements can be downloaded via optical port.

General characteristics

- Up to 12 seasons, 8 day-types, 16 rates and 64 switching times per day per season.
- Up to 128 exclusion days are provided.
- Daylight saving can be applied.

Data Storage in non-volatile (Flash) memory

Up to 32 stacks of historical billing data.

Up to 8 channels of profile data can be logged at different time intervals. Data capacity of 400 days @8 channels and 30 minute intervals.

Profile data can be stored on the basis "Snapshot", sum, minimum, maximum or average values, to suit the parameter.

A comprehensive event logging facility allows extensive audit and alarming facilities.
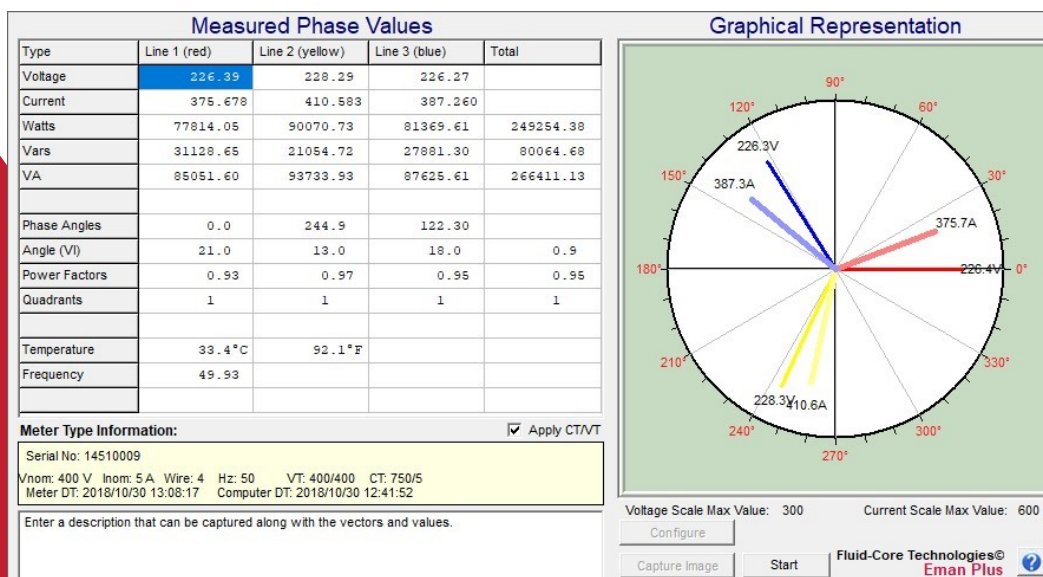
Meter stores up to 8 historical setups.

Expansion Facilities

Two expansion slots.
I/O expansion modules: 4 Inputs/Outputs; 8 inputs; 8 outputs
Capable of collecting energy pulses from other sources,
Communication modules: RS232/485 (to 115 kb); GPRS/PSTN/485; Ethernet/485.

Measured Phase Values

Type	Line 1 (red)	Line 2 (yellow)	Line 3 (blue)	Total
Voltage	226.39	228.29	226.27	
Current	375.678	410.583	387.260	
Watts	77814.05	90070.73	81369.61	249254.38
Vars	31128.65	21054.72	27881.30	80064.68
VA	85051.60	93733.93	87625.61	266411.13
Phase Angles	0.0	244.9	122.30	
Angle (VI)	21.0	13.0	18.0	0.9
Power Factors	0.93	0.97	0.95	0.95
Quadrants	1	1	1	1
Temperature	33.4°C	92.1°F		
Frequency	49.93			

Meter Type Information: ☑ Apply CT/VT

Serial No: 14510009

Vnom: 400 V   Inom: 5 A   Wire: 4   Hz: 50   VT: 400/400   CT: 750/5
Meter DT: 2018/10/30 13:08:17   Computer DT: 2018/10/30 12:41:52

Enter a description that can be captured along with the vectors and values.

Graphical Representation

90°
120°   60°
226.3V
150°   30°
387.3A
375.7A
180°   226.4V   0°
210°   330°
228.3V 10.6A
240°   300°
270°

Voltage Scale Max Value: 300   Current Scale Max Value: 600

Configure

Capture Image   Start   Fluid-Core Technologies©
Eman Plus

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