

Electro Industries Multi-Function Power Monitor

- Built-in Ethernet Connectivity (DMMS-350)
- ANSI Footprint
- True RMS .2% Accuracy (DMMS-300)
- .3% Accuracy (DMMS-425)
- Harmonic Distortion to 31st Order
- Harmonic Waveform Capture (DMMS-300)
- MIN/MAX Demand
- 10 Channels of Analog Transducer Output
- ModBus, DNP 3.0
- Utility Grade



ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: DMMS-300-R-2E-X-KV-KA-MW-120-115A-MODR-X

A	B	C	D	E	F	G	H	I	J	K	L
A Basic Unit											
DMMS-300	Multi-Function Power Monitor										
DMMS-350	Multi-Function Power Monitor										
DMMS-425	Multi-Function Power Monitor										
B Reading Type (N/A for DMMS-425)											
X	KVAH Reading										
R	KVARH Reading										
C Connection											
3E	3 Element-3-Phase 4-Wire Wye (3 PTs)										
2.5E	2.5 Element-3-Phase 4-Wire Wye (2 PTs)										
2E	2 Element-3-Phase 3-Wire Delta										
D Harmonic Capability (N/A for DMMS-425)											
X	None										
H	Harmonics to 31 st Order										
E Volts Label											
V	Volts Label										
KV	Kilovolts Label										
F Amps Label											
A	Amps Label										
KA	Kiloamps Label										
G Power Label											
KW	Kilowatts Label										
MW	Megawatts Label										
H Operation Monitoring Voltage											
120	120/208V (Direct Reading or PTs)										
G	277/480 (Direct Reading)										
I Operating Power											
115A	115 VAC ±20%, 6 VA										
230A	230 VAC ±20%, 6 VA										
D	24-48 VDC ±20%, 6 VA										
D2	125 VAC or DC ±20%, 6 VA Universal										
D4	12 VDC ±20%, 6 VA										
J COM Protocol											
MODR	ModBus RTU										
MODA	ModBus ASCII										
DNP	DNP 3.0										
EI	EI-Bus										
K Relay Options											
X	None										
NL	2 Relays-1 KYZ Pulse (DMMS-300 only)										
NL2	3 KYZ Pulses										
L Output Module Option											
SF485DB	RS485 Output (Digital)										
SF532DB	RS232 Output (Digital)										
SHNI-1	10 Channel 0-1mA (DMMS 300 only)										
SHNI-20	10 Channel 4-20mA (DMMS 300 only)										

The DMMS-300 is a four-quadrant multi-function power meter that measures:

- 3Ø Voltage (L-N, L-L)
- 3Ø Current
- Neutral Current
- Bi-directional KW (3Ø & Total)
- Bi-directional KVAR (3Ø & Total)
- KVA (3Ø & Total)
- PF (3Ø & Total)
- Bi-directional KWH
- KVAh
- Frequency
- %THD
- K Factor

It replaces individual single-function meters by providing three parameter displays and an easy to use front panel interface, as well as digital and analog connections to a control or monitoring system. The DMMS-300 includes advanced power measurements and min/max storage for power analysis & control. User-defined setpoints are available for most measured values.

The DMMS-350 adds a standard Ethernet TCP/IP connection. The meter is ideal for applications requiring real time metering or data streaming to a LAN or through the Internet. Information is reported using the industry standard Modbus TCP/IP protocol. Harmonic measurements are also standard in the DMMS-350.

The DMMS-425 is an economical power monitor that measures and calculates over 80 electrical parameters, including maximum and minimum values for every reading. This full four-quadrant meter has separate positive and negative Watthour counters and complies with ANSI C12 revenue metering accuracy requirements.

SPECIFICATIONS

Accuracy	DMMS-300	DMMS-350	DMMS-425
Volts:	0.2% of Full Scale	0.2%	0.3%
Amperes:	0.2% of Full Scale	0.2%	0.3%
KW:	0.4% of Full Scale	0.4%	0.6%
KVA:	0.4% of Full Scale	0.4%	0.6%
KVAR:	0.4% of Full Scale	0.4%	0.6%
PF:	1.0% of Full Scale	0.4%	0.6%
KW Hour:	0.4% of Full Scale	0.4%	0.6%
KVA Hour:	0.4% of Full Scale	0.4%	0.6%
KVAR Hour:	0.4% of Full Scale	0.4%	0.6%
Frequency:	0.02 Hz	0.02 Hz	0.02 Hz
Harmonics:	0.50%	0.50%	NA
Input Voltage:	150V phase to neutral, 300V phase to phase-std. 300V phase to neutral, 600V phase to phase-G option 300V phase to neutral, 150V phase to phase-75 option		
Input Current:	5A at Full Scale, 10A maximum		
Burden:	Voltage 0.1 VA maximum; Current 0.1 VA maximum		
Operating Temp.:	-20°C to +70°C		
Sensing Method:	True RMS sampling at 64 samples per cycle		