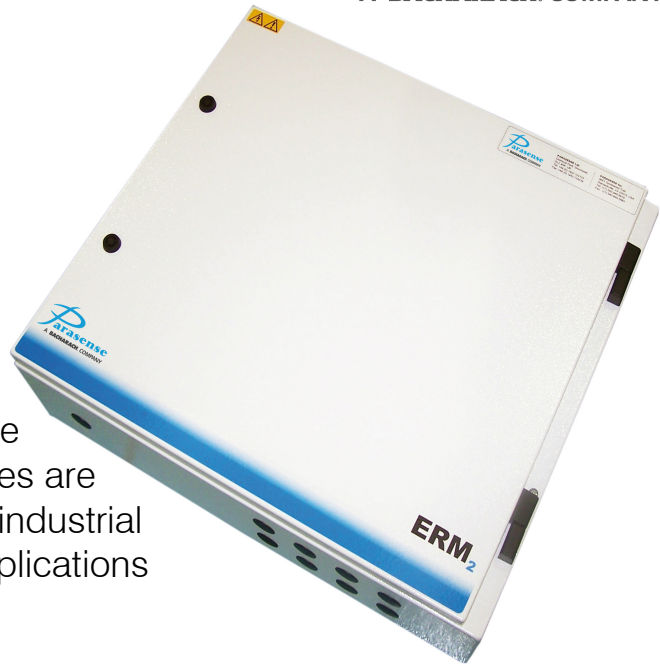


ERM₂

Energy Monitor



The ERM2 is a multi circuit utility monitor, with standard configurations of 6 or 12 three phase circuits and 24 or 36 single phase circuits. SARTs are provided to cover measurement of an extensive range from 2 to 2500 Amps. Four voltage ranges are catered for that cover most commercial, industrial and military applications, with special applications catered for on request.

Product Features

Uses

- Sub-metering departmental energy usage in retail outlets.
- Sub-metering tenants, concessionaries, etc.
- Sub-metering manufacturing processes
- Demand limiting control

Product Extensions

- Pulsed meter measurement for gas, water, electricity.
- Light level, temperature, humidity, dewpoint, motion inputs for cluster inputs.
- Additional demand limiting control using cluster outputs.
- Cluster I/O configurations available

Features

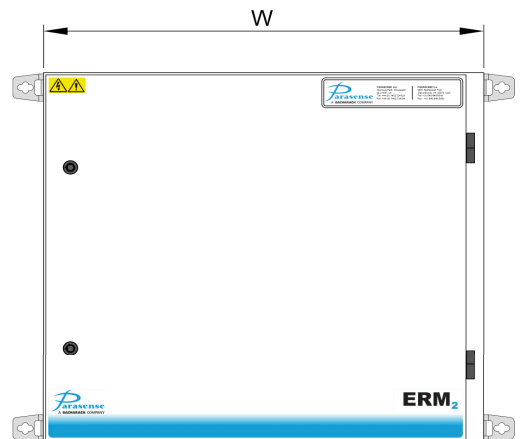
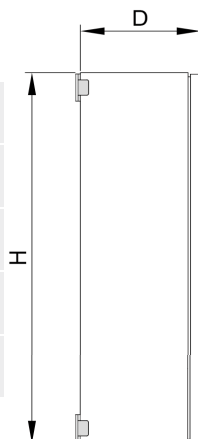
- Up to 4 pulse counter inputs.
- Measurement of voltage, current, pf, kW, kVA and kWh.
- Data logging at 5 through 60 minute intervals of all variables.
- 2 channels of demand limiting control

Certifications

- EN61010-1:2010
- UL61010-1
- CSA C22.2 61010-1
- UL Listing E469188
- MET Listing E112074
- ANSI C12.1-2008

Product Dimensions

Model	ERM2-104-112
Height	500mm
Width	550mm
Depth	150mm
Weight	18kg



Technical Specification

Current Measurement - ARTs / SARTs

- Current range (per phase): 2-2500A
- Secondary range: 0-150mA
- Open circuit protection provided
- Accuracy: better than 1%
- Revenue grade - Complies with ANSI C12.1-2008

Ethernet

- 10 Base-T RJ45 socket

Configurable Relays

- Volt free, change-over
- Fault and alarm indication
- Max switching voltage: 277V AC/30V DC
- Max switching current: 6A AC/5A DC/resistive

Display & Operator Control Options

- Traffic lights
- Traffic lights, LCD status display & navigation keypad

Cluster Networks

- RS485 communication
- Network power: 24V DC max 650mA
- Baud rate: 115kbps
- Total number of I/O clusters dependent on application

Pulse Counters/Digital Inputs

- Output (for use with volt-free contacts): Up to 24V DC, max 20mA
- Input: 0-24V DC
- Max. pulse frequency: 1kHz
- Min. pulse duration: 500µs
- Logic '0' < 2V; Logic '1' > 5V

Voltage Ranges Monitored

- 120/208V AC, three phase, 50/60Hz
- 230/400V AC, three phase, 50/60Hz
- 277/480V AC, three phase, 50/60Hz
- 347/600V AC, three phase, 50/60Hz

Operating Conditions

- Operating temperature: 0 to 50°C
- Storage temperature: -23 to 65°C
- Relative humidity: 20 to 95% RH (non condensing)
- Altitude up to 2000M
- Indoor use only

Power Requirements

- 120/208V AC, three phase, 50/60Hz
- 230/400V AC, three phase, 50/60Hz
- 277/480V AC, three phase, 50/60Hz
- 347/600V AC, three phase, 50/60Hz

Overcurrent Protection

- 6A DP MCB

Mains Filter (optional)

- Overvoltage protection

Enclosure Rating

- NEMA 12
- IP54

ERM2 Typical Installation

