

## ■ **IDR (Interval Data Recorder)**

E-Mon's IDR collects and stores meter data in time-stamped intervals for later download. Whereas a meter, such as an E-Mon D-Mon® submeter, continuously reads energy usage as it occurs, an IDR collects and stores meter information at specified time periods, allowing for profiling of meter data and more detailed comparative analysis or billing.

The IDR collects kWh (energy) and kW (demand) information from meters in 5, 15, 30 or 60-minute interval periods. Data can be collected from up to 8 or 16 separate meters/channels of information. Up to 36 days of 15-minute interval data can be stored in onboard memory. The IDR can be remotely accessed by telephone, Ethernet, ModBus or the Internet using either E-Mon Energy™ software or MV-90 to acquire stored interval meter data.

### ■ **Key Benefits**

- Flexible** - Reads water, gas and electric meters providing a pulse output, plus or E-Mon D-Mon® submeters.
- Convenient** - Reads and records data from up to 8 or 16 meters.
- Versatile** - Interfaces with a variety of energy solutions including E-Mon Energy software.

### ■ **Key Features**

- Ideal for both new and retrofitted facilities.
- Communication options include telephone, Ethernet, ModBus and RS-485.
- Reads kWh and kW in 5, 15, 30 or 60-minute periods.

### **Reliable Choices**



*Relied on for accurate data  
for over 25 years.*

# **E-Mon®**

Single-Phase Meters

Three-Phase Meters

Advanced Meters

Interval Data Recorders

Accessories

Software

## ■ **IDR (Interval Data Recorder)**

### Benefits

- Easy and affordable installation virtually anywhere, including both new and retrofitted facilities.
- Retains data in the event of power failure.
- Reads and records data from up to 8 or 16 meters.
- Capable of providing “run-time” information.
- Accepts kW and kVar pulses for power factor data.
- IDRs can be “daisy-chained” for large installations with multiple metering points.

### Features

- Record data from water, gas and electric meters providing a pulse output, plus E-Mon D-Mon® submeters.
- Interfaces with E-Mon Energy™ software for tenant billing, cost allocation and graphing of energy usage.

### Specifications

- Available as stand-alone or MMU configuration.
- Internal data storage - 36 days of 15-minute intervals. Maintains last 36 days of data.
- Selectable baud rate up to 19200 bps.
- External meter input (water, gas, BTU, etc.)
- Reads meters individually or in groups.
- Industrial grade JIC (Joint Industrial Council) steel enclosure with padlocking hasp and mounting flanges for indoor installation.
- RS-485 communications allow up to 4,000 feet of cabling to be used for “daisy-chaining” multiple IDRs.
- Available with RJ-45 modular jacks (for use with E-Mon D-Mon meters) or “two-screw” terminals (for use with other meters.)

# **E-Mon®**

## Features

- Reads & records up to 8 or 16 meters.
- External meter input (water, gas, BTU, etc.) available with IDR-ST models.
- RS-485 communications capability supports up to 52 Class 3000 meters or IDRs via 4-conductor cable (up to 4000 feet total 24-26 AWG). Cabling can be either "daisy chain" or "star" configuration or any combination thereof.
  - 14.4K baud modem (optional)
- Internal data storage - 36 days of 15-minute intervals. Maintains last 36 days of data.
- Selectable baud rate up to 19200 bps.
- Standard IDRs do not require a separate power source (power supplied by E-Mon D-Mon meters.) IDR-ST models require a separate 120V power source (included with IDR-ST models.)
- Maintains data in case of power failure.
- Industrial-grade JIC steel enclosure with padlocking hasp and mounting flanges.
- Three 1 1/16" KO (3/4" cond.) on bottom of enclosure.
- IDR data accumulators can be mounted inside MMU cabinets and shipped from the factory in one complete package.
- Available in configurations for 1-8 meters or 1-16 meters.
- External meter input (water, gas, BTU, etc.)
- Reads kWh (kilowatt-hours) and reads kW (Demand) in 15, 30 or 60-minute kW periods.
- Read meters individually or in groups.



Dim: 9 1/2" H x 6 3/4" W x 3 3/4" D

## Model Numbers

IDR-8 (Up to 8 meters)

IDR-16 (Up to 16 meters)

\*For optional screw terminals in place of RJ jacks  
add suffix ST to the model number.

Example: IDR-8-ST

## Built-In Communication Options

Telephone Modem (Suffix M)

ModBus Communication (Suffix RTU)