

# Honeywell E-Mon

## Honeywell E-Mon IDR INTERVAL DATA RECORDER

### SPECIFICATION DATA

### FEATURES

- **Advanced scrolling 4-line display showing:**
  - kWh for each meter connected to the IDR
  - Real-time load for each meter connected to the IDR
- **On-board set-up options for:**
  - IP Address
  - Date/Time
  - ID codes for EZ7, Modbus & BACnet
- **Standard IDR (RJ Jacks) reads & records up to 8 or 16 E-Mon D-Mon electric meters.**
- **IDR-8 ST (screw terminal) model can accept contact closure type pulse inputs from other types of meters (water, gas, BTU, steam, etc.)**
- **Built-in RS-485 EZ7 communications capability supports up to 52 Class 3200, 3400 and 5000 meters and/or IDR interval data recorders (not to exceed 52 devices/channel). Cabling can either be daisy-chain or star configuration, 3- cond., 22 AWG, up to 4,000 feet total per channel.**
- **Built-in RS-485 and Ethernet communications available.**
- **Protocols:**
  - EZ7
  - Modbus TCP/IP
  - BACnet IP<sup>a</sup>
  - Modbus RTU
  - BACnet MS/TP<sup>a</sup>
- **Data stored in 15-minute intervals for up to 72 days or 5-minute intervals for up to 24 days. Maintains data in a first-in, first-out format.**
- **Reads usage and reads demand in 15, 30 or 60-minute kW periods (15-minute standard.)**
- **120V power supply required and included with all IDRs.**
- **Maintains data in case of power outage.**
- **Industrial grade JIC steel enclosure (standard) with padlocking hasp & mounting flanges for indoor installation and three 1-1/16 in. knockouts (3/4 in. conduit) on bottom of enclosure.**
- **Optional MMU style enclosure. (Can be factory installed in Multiple Meter Unit cabinets with meters.)**
- **FCC Approval.**
- **MV-90 compatible (with EZ7 only.)**

### MODEL NUMBERS

**EIDR-8-J\*RJ** (Up to 8 meters)

**EIDR-16J\*RJ** (Up to 16 meters)

### Optional Enclosures

IDRs are supplied standard with JIC steel enclosures for indoor installation. For optional enclosures replace the first "J" in the model with optional enclosure specification.

Specification **M** - MMU Configuration (ex. EIDR-16**M**04RJ)

### IDR Screw-Terminal Option

(for interface to third-party metering products)

EIDR-8-\***ST** (Up to 8 meters)

### Communication Protocol & Option Packages

Specify protocol package when ordering all meters. Replace \* in model number with protocol package specification below.

RS-485 Port	Ethernet Port	Specify
EZ7	EZ7 Ethernet	01
Modbus RTU	EZ7 Ethernet	02
BACnet MS/TP <sup>a</sup>	EZ7 Ethernet	03
EZ7	Modbus TCP/IP	04
EZ7	BACnet IP <sup>a</sup>	05
Modbus RTU	Modbus TCP/IP	06

<sup>a</sup> NOTE: Interval data not stored in BACnet. Present values pulse count stored in these registers.



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## IDR Specifications

IDR interval data recorder shall be available in stand-alone or MMU (multiple meter unit) configuration for indoor installation.

IDR Interval data recorder shall be independently capable of reading eight (8) or sixteen (16) E-Mon D-Mon electric meters (RJ45 version) and contact closure type pulse inputs (IDR-8 with Screw Terminal option only) from other types of meters (KYZ Pulse, water, gas, BTU, steam, etc.)

IDR Interval data recorder shall store data in 15-minute intervals for 72 days or 5-minute intervals for 24 days of data.

IDR shall be field programmable for meter date/time, IP address and ID code for communication option.

IDR interval data recorder shall be capable of daisy-chain or star connection using RS-485 EZ7 communications in the following configurations (or combinations not to exceed 52 devices (IDR-8, IDR-16 or Smart Meter) per channel):

Cabling can be 3-conductor, 22 AWG, up to 4,000 cable feet total per channel.

IDR interval data recorder shall communicate via:

- RS-232/RS-485 (standard)
- Ethernet (standard)
- Modbus RTU
- \*Modbus TCP/IP
- \*BACnet IP
- BACnet MS/TP

\* Modbus TCP/IP and BACnet IP communicate over Ethernet. No RS-485 daisy-chain capabilities with Modbus TCP/IP & BACnet IP. Each IDR must connect directly to the BACnet/Modbus backbone and have a unique IP address.

IDR interval data recorder (Model IDR-ST) shall be capable of recording interval data from other types of meters such as gas, water, electric or BTU, equipped with a contact closure type pulse output.

IDR requires a 120VAC power source. All meters must be located within 500 cable feet.

IDR shall provide non-volatile memory to maintain reading during power outages.

IDR shall be MV-90 compatible (EZ7 version only, specify when ordering.)

IDR shall be available with the following communication protocol and option packages:

RS-485 Port	Ethernet Port	Specify
EZ7	EZ7 Ethernet	01
Modbus RTU	EZ7 Ethernet	02
BACnet MS/TP <sup>a</sup>	EZ7 Ethernet	03
EZ7	Modbus TCP/IP	04
EZ7	BACnet IP <sup>a</sup>	05
Modbus RTU	Modbus TCP/IP	06

<sup>a</sup> NOTE: Interval data not stored in BACnet. Present values pulse count stored in these registers.

### Home and Building Technologies

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