

# **IDR (INTERVAL DATA RECORDER)** **ENGINEERING SPECIFICATIONS**

**E-Mon D-Mon**

Energy Monitoring Products & Systems

## ***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 and contact closure type pulse inputs from other types of meters (water, gas, BTU, steam, etc.)

IDR Interval data recorder shall store data for up to 36 days, until downloaded into computer. IDR maintains the last 36 days of data.

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

- Up to 52 IDR-8 interval data recorders
- Up to 26 IDR-16 interval data recorders (IDR-16 counts as two devices)

Cabling can be 4-conductor, 24-26 AWG, up to 4,000 cable feet total per channel.

IDR interval data recorder shall communicate via:

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

\* 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-ST requires a 120VAC power source. All meters must be located within 500 cable feet.

IDR shall **not** require a separate power source when used with E-Mon D-Mon electric meter(s) as source(s) of operating power. Meter powering IDR must be located within 100 cable feet of IDR; all others within 500 cable feet.

IDR shall contain a backup power system to maintain memory in case of a power outage.

IDR shall be MV-90 compatible (Specify when ordering.)

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