



## ***System Overview Specifications***

- System shall be capable of reading E-Mon D-Mon® Class 1000, 2000, 3000, 4000 (via IDR) and 4100 meters (via wireless gateway) through a PC.
- System shall be capable of reading utility type meters such as gas, water, electric or BTU equipped with a pulse output.
- System shall consist of IDR (Interval Data Recorders) and E-Mon Energy software for Windows 2000 and XP with software key.
- System shall utilize RS-232/485 communications and will operate at a baud rate of up to 19,200 BPS.

## ***IDR Specifications***

- IDR Interval data recorder shall be independently capable of reading eight (8) or sixteen (16) E-Mon D-Mon meters and storing data for up to 36 days, until downloaded into computer. IDR maintains the last 36 days of data.
- RS485 communication capability supports up to 52 Class 3000 meters or IDRs (IDR-16 counts as two units) via 4-conductor cable (up to 4,000 feet total 24-26 AWG) per key input port. Key supports up to three (3) inputs. Cabling can either be “daisy chain” or “star” configuration thereof. 14.4K baud modem optionally available.
- IDR interval data recorder shall be capable of reading utility type meters such as gas, water, electric or BTU equipped with a pulse output (Model IDR-ST.)
- IDR shall not require a separate power source when used with E-Mon D-Mon meter(s) as source(s) of operating power. Meter powering IDR must be located within 100 cable feet of IDR, all others within 500 feet.
- IDR shall contain a backup power system to maintain memory in case of a power failure.
- IDR shall be MV-90 compatible (Specify when ordering.)

## ***E-Mon Energy Software Specifications***

- E-Mon Energy software shall operate with a PC with the following minimum specifications:
  - CD-Rom Drive
  - 200 MB hard drive space available
  - (1) RS-232 Serial port
  - Microsoft Windows 2000/XP
- E-Mon Energy software shall provide for reading kilowatt hours and demand from the IDR or wireless gateway connected to E-Mon D-Mon meters and provide this information for analysis and/or billing.
- E-Mon Energy software shall be capable of reading “real-time” data from Class 3000 meters (kW, kVAR, kVa, Amps, Volts, Power Factor and Frequency.)
- E-Mon Energy software shall be capable of printing out electric bills and usage information.
- E-Mon Energy software shall have graphic capabilities (profile) to provide analytical charts and graphs, with demand profiling for 5-, 15-, 30- or 60-minute sampling rates.
- E-Mon Energy software shall provide file export to spreadsheets for specialized applications.
- E-Mon Energy software shall read for gas, water and other meter types with pulse output.
- E-Mon Energy software shall be capable of supporting 1,000 locations.
- E-Mon Energy software shall be capable of exporting MV-90 (hhf) files.