

System Overview Specifications

System shall be capable of reading E-Mon D-Mon® Class 1000, 2000, 3000, 4000 (via IDR), Class 2100 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, XP and Vista 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 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/Vista

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 be capable of supporting declining block tariffs, up to eight time-of-use rates and up to four seasonal 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.