

SUB Series Interval Data Recorder

SPECIFICATION DATA



FEATURES

- Reads and records up to 8 or 16 electric meters.
- SUBIDR-B model can accept contact closure type pulse inputs from other types of meters (water, gas, BTU, steam, etc.)
- RS-485 communications capability supports the following connection configurations (or combinations not to exceed 52 devices per channel):
 - Up to 52 SUBIDR-8 interval data recorders
 - Up to 26 SUBIDR-16 interval data recorders (IDR-16 counts as two devices)

- Cabling can be either daisy-chain or star configuration, 4-conductor, 24-26 AWG, up to 4,000 cable feet total per channel.
- Communication Options
 - RS-232/RS-485 (Standard)
 - Telephone Modem
 - Ethernet
 - Modbus RTU or Modbus TCP/IP
 - BACnet IP or BACnet MS/TP
 - LONworks TP (Twisted Pair)
- Internal data storage-36 days of 15-minute intervals. Maintains last 36 days of data for Ethernet EZ-7, RS485 EZ-7, and Modem models only. For these protocols, you can use E-Mon Energy software to access kWh, or you can use the EZ-7 driver (part number SUB-EZ7) to integrate to Niagara AX software and get pulse counts for each meter to convert to kWh.
- Reads kWh (kilowatt-hours) and reads kW (Demand) in 15, 30 or 60-minute kW periods.
- Standard IDRs do not require a separate power source (power supplied by Honeywell electric meters.) SUBIDR-B models require a separate 120V power source (included with SUBIDR-B models.)
- Maintains data in case of power outage.
- Industrial-grade JIC steel enclosure with padlocking hasp and mounting flanges. (For indoor use only.)
- Three 1 1/16" knockouts (3/4" conduit) on bottom of enclosure.

Table 1. IDR Configuration.

SUBIDR	# of Connections	Output Type ^a	Terminals
SUBIDR-	8 (8 inputs)	Blank : RS-485 EZ-7 E : Ethernet EZ-7 M : Modem	A : All RJ45 Jacks B : All Screw Terminals C : 8 Jacks, 8 Screw Terminals
SUBIDR-	16 (16 inputs)	R : Modbus RTU ER : Modbus IP EB : BACnet IP B : BACnet MS/TP L : LON Twisted Pair	

^a 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. Example: **SUBIDR-16ERB** is an IDR with 16 inputs, all screw terminals, with Modbus IP output.



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