

H-Series Interval Data Recorder (IDR)

PRODUCT DATA



APPLICATION

The Interval Data Recorder (IDR) is an energy data collection device.

FEATURES

- **Advanced 4-line display showing:**
 - kWh
 - Real-time load
- **On-board set-up option for:**
 - IP address
 - Date/time
 - ID codes for EZ7, Modbus and BACnet
- **Standard IDR (RJ Jacks) reads & records up to 8 or 16 H-Series class 100/200 meters (pulse input). (3rd party meters don't work with RJ jacks.)**
- **IDR-ST (screw terminal) model can accept contact closure type pulse inputs from other types of meters (water, gas, BTU, steam, etc.). The ST option is available only on HIDR-8 models.**
- **Built-in RS-485 communications capability supports the following connection configurations (or combinations not to exceed 52 devices per channel):**
 - Up to 52 Class 500 meters and/or IDR interval data recorders
 - Cabling can be either daisy-chain or star configuration, 3-conductor, 18-22 AWG, up to 4,000 cable feet total per channel.
- **Built-in communications**
 - RS-485
 - Ethernet - Optional telephone modem
- **Protocols**
 - EZ7
 - Modbus RTU
 - Modbus TCP/IP
 - BACnet MS/TP
 - BACnet IP
 - LonWorks FT-10 (Twisted Pair)

	Contents
Application	1
Features	1
Ordering Information	2
Specifications	3



H-SERIES INTERVAL DATA RECORDER (IDR)

- Data stored for 55 days at 5-min intervals and 165 days at 15-min intervals. (When connected to E-mon Energy software, data can be retrieved for 72 days at 15-min intervals and 24 days at 5-min intervals).
- Reads usage and reads demand in 15, 30 or 60-minute kW periods.
- 120V power supply required and included with all IDR's.
- Maintains data in case of power outage.
- Industrial-grade JIC steel enclosure with padlocking hasp and mounting flanges and three 1 1/16 knockouts (3/4" conduit) on bottom of enclosure (stand-alone IDR's only).
- MV-90 compatible (with EZ7 only).

Interval Data Recorder Selection Guide								
Series	Class	Number of Meters	Enclosure Type		Protocol		Connection	
H	IDR	8	J	JIC STEEL ENCLOSURE	02	MODBUS RTU, EZ-7 ETHERNET	ST	SCREW TERMINAL CONNECTIONS (AVAILABLE IN ONLY HIDR-8 MODELS)
		16			03	BACNET MS/TP, EZ-7 ETHERNET	RJ	RJ CONNECTIONS
					05	EZ-7 RS-485, BACNET IP		
					06	MODBUS RTU, MODBUS TCP/IP		
					07	LONWORKS TP, EZ-7 ETHERNET		
					11	EZ-7 RS-485, BACNET IP WITH MODEM		
Example: HIDR-8-J05ST = Class IDR 8 meters Steel Enclosure EZ-7 RS-485 and BACnet IP with screw terminal option								
Example: HIDR-16J02RJ = Class IDR 16 meters, Steel Enclosure, Modbus RTU and EZ-7 Ethernet with RJ connection option								

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number. If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

1. Your local Honeywell Environmental and Combustion Controls Sales Office (check white pages of your phone directory).
2. Honeywell Customer Care
1985 Douglas Drive North
Minneapolis, Minnesota 55422-4386
3. <http://customer.honeywell.com> or <http://customer.honeywell.ca>

International Sales and Service Offices in all principal cities of the world. Manufacturing in Belgium, Canada, China, Czech Republic, Germany, Hungary, Italy, Mexico, Netherlands, United Kingdom, and United States.

INTERNAL DATA RECORDER (IDR) TECHNICAL SPECIFICATIONS

Enclosure:	JIC Steel Enclosure
Dimensions:	9.5" H x 6.75" W x 3.875" D
Knockouts:	Three (3) on bottom of enclosure (3/4" Cond.)
Power Supply:	Powered by 120 VAC adapter
Back Up:	Lithium Power Cell CR2032 (10 year lifetime)
LED Indicators	BEAT, STATUS, TX, RX, ACT, LINK
Inputs:	IDR-8: Eight (8) eight-pin modular ports or Eight (8) 2-screw plug-in terminals
	IDR-16: Sixteen (16) eight-pin modular ports or Sixteen (16) 2-screw plug-in terminals.
Max Pulse Input:	<960 pulses per minute (50% duty cycle)
Data Storage:	55 days @ 5-minute sampling intervals, 165 days @ 15-minute sampling intervals
Interface with:	E-Mon D-Mon sub-meters, electric utility meters, third-party sub-meters, gas meters, water meters, BTU meters, and any meter equipped with a contact pulse output (using available 2-screw terminals)
Power Consumption:	2 watts maximum, 1.2 watts typical
Processor:	32-bit, 12 MHz main clock, 60 MHz internal
Real-Time Clock:	100-year clock/calendar automatically makes changes to standard/daylight savings time
Communications:	Serial, RS-485, 2-wire, half duplex. Optically isolated from all other circuits. 9600 bps standard.

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422
customer.honeywell.com

© U.S. Registered Trademark
© 2012 Honeywell International Inc.
63-2718—02 KK Rev. 07-12
Printed in United States

Honeywell