



H-4400 SERIES

LINE-OF-SIGHT RADIO

The WaterLOG® **H-4400** series are spread spectrum RS-232 radio bridges capable of communicating via radio link or repeating radio receiver. Spread spectrum technology is highly secure with good interference immunity. The H-4400 series offers multiple model options depending on your location and preferred frequency. Each model has a master to slave option.

APPLICATIONS

Transmit sensors to data loggers

KEY FEATURES

- Easy to use radio link
- Works with all DAA data recorders
- Each remote site can have multiple SDI-12 sensors
- Uses modern frequency hopping spread spectrum telemetry radios
- Radio link provides transparent SDI-12 compliant communication between your data recorder and one or more remote sites



H-4400 Series



a xylem brand

SPECIFICATIONS - ALL MODELS

PERFORMANCE		
General	Type	Frequency hopping spread spectrum transceiver
Protocol	Master	SDI-12 (H-424-MS models only)
	Slave	SDI-12 (H-424-MS models only)
	Type	Transparent SDI-12 works with all SDI-12 commands including extended and V1.2 commands.
Frequency	Input Range	902.5 to 927.5 MHz
		2.4 GHz (H-424-MS-2.4 model only)
	Line of Sight	9+ miles (depending on antenna and site conditions)
	Modulation Type	Direct Sequence Spread Spectrum
Requirements	Data logger must support multiple (3/3) SDI-12 breaks with retries. One SDI-12 address must be assigned to the H-424 itself (facilitates awakening the master and slaves low power sleep).	
MECHANICAL / POWER		
Size	Enclosure	8 in. W x 6 in. L x 4 in. H
Material	Enclosure	Fiberglass NEMA 4 Hinged screw cover
Power	Input Voltage	9.6 to 18 V DC
	Transmission	250 mW (=24dBm)
	Control	Remote station uses programmable sleep / wake-up to detect carrier.
Connector	H-424	Switchcraft EN3P4M (4-pin male)
	Mate	Switchcraft EN3C4F (4-pin female)
	RF Connector	Reverse Type -TNC
	Receive Sensitivity	-110 dBm
Current	Standby	200 µa (sleep)
	Receive	30 mA (vary with model)
	Transmit	60 mA (vary with model)
	Average	Less than 2.0 mA
COMMUNICATION		
SDI-12 Output	Baud Rate	1200
	Protocol	SDI-12, 7-bit even parity, 1 stop bit (H-424-MS models and -S versions of H-4400 Series models only)
	Voltage Levels	Minimum high 3.5 V Maximum low 0.8 V
ENVIRONMENTAL		
General	Operating Temperature	-40 ° to 60 ° C
	Storage Temperature	-50 ° to 70 ° C
	Humidity	0 to 100%

QUICK SPECIFICATION DETAILS						
	RS-232	SDI Master	SDI Slave	250mW (24 dBm)	1 Watt	Repeater
H-424-MS		X	X	X		
H-424-MS-2.4		X	X	X		
H-4401-M	X			X		
H-4401-S			X	X		
H-4402-M	X				X	
H-4402-S			X		X	
H-4410-M	X			X		X
H-4410-S			X	X		X
H-4411-M	X				X	X
H-4411-S			X		X	X
MISCELLANEOUS						
Warranty	The WaterLOG® H-4400 series is warranted against defects in materials and workmanship for 2 years from date of shipment.					
Note	Specifications subject to change without prior notice due to on going commitment to product testing and improvement. LR June, 2015 (D22-06 0615)					