

WATERLOG®

YSI incorporated

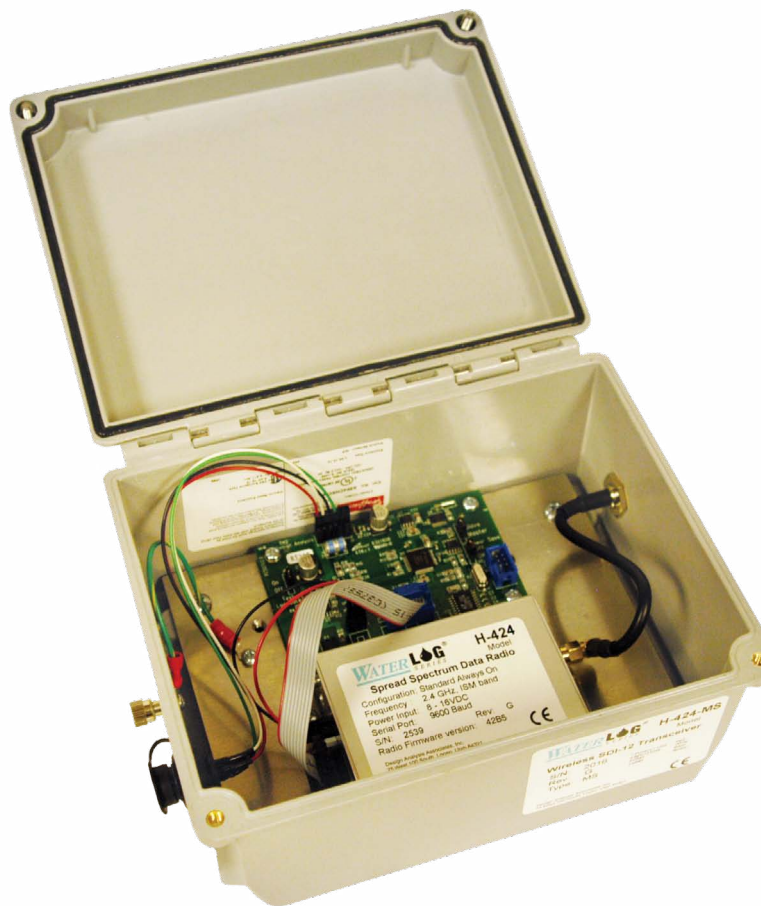
MODEL H-424MS

Spread Spectrum SDI-12 Radio Bridge

The WaterLOG® Model H-424MS is a spread spectrum SDI-12 radio bridge. Each unit contains a micro-processor control board and a spread spectrum telemetry radio. Spread spectrum technology is highly secure and has good interference immunity. The radio operates in the license-free, 900* MHz ISM Band eliminating the need for any FCC licensing, allowing the radio system to be used immediately.

KEY FEATURES

- The radio link is easy to use and works with any SDI-12 data recorder or sensor
- Radio link provides transparent, SDI-12 compliant communication between your data recorder and one or more remote sites
- All SDI-12 commands are supported, including manufacturer specific extended commands
- Each remote site can have multiple SDI-12 sensors
- The system uses modern direct sequence spread spectrum telemetry radios



* 2.4Ghz Version Available

DATA INPUT			
Protocol	Master	SDI-12	
	Slave	SDI-12	
	Type	Transparent SDI-12. Works with all SDI-12 commands including extended and V1.2 commands	
	Requirements	Data logger must support multiple (3/3) SDI-12 breaks with retries.	
Radio	Frequency Range	902.5 to 927.5 MHz (2.4 Ghz Available)	
	Line of Sight	5 plus miles - depending on antenna and site conditions.	
	Modulation Type	Direct Sequence Spread Spectrum	
	RF Connector	Reverse Type-TNC	
	Transmission Power	500 mW (=27dBm)	
	Receive Sensitivity	-100 dBm	
	DATA OUTPUT		
SDI-Output	Baud Rate	1200	
	Protocol	SDI-12, 7-bit even parity, 1 stop bit	
	Output Voltage Levels	Minimum high level	3.5 volts
		Maximum low level	0.8 volts



MECHANICAL DATA				
Physical	Enclosure	Fiberglass, NEMA 4		
	Size	8 in. x 6 in. x 4 in. with hinged screw cover		
	Connectors	H-424	Switchcraft EN3P4M (4-pin male)	
		Mate	Switchcraft EN3C4F (4-pin female)	
Power	Input Voltage (ASI only)	9.6 to 18.0 Volts DC		
	Power Control	Remote station uses programmable sleep/wake-up to detect carrier.		
	Current	Standby	510a (sleep)	
		Receive	135 mA	
		Transmit	800 mA	
		Average with Power Control	Less than 2.0 mA	
ENVIRONMENT				
Temperature	Operating	-40° to + 60° C		
	Storage	-50° to + 70° C		
	Humidity	0 to 100%		
MISCELLANEOUS				
Warranty	The WaterLOG® H-424MS is warranted against defects in materials and workmanship for one year from date of shipment.			
Note	Specifications subject to change without prior notice due to ongoing commitment to product testing and improvement. LR October 5, 2011. D11 1011.			

WATER LOG
YSI incorporated