





XL SERIES DATA LOGGERS

DATA COLLECTION PLATFORM (DCP)

The **XL Data Logger** series is an extremely reliable and history proven Data Collection Platform (DCP), consisting of four models. The H-500XL, H-350XL, H-522 and H-522+ accommodate various applications for remote operation. Collect reliable data under extreme environmental conditions, communicate with Satellite, GPRS/GSM modems and other means of communication with the XL Data Logger series.

APPLICATIONS

Ideal for hydrological applications including irrigation, mining, aquaculture, surface/ground/waste/storm water, industrial control, meteorology and many others.

KEY FEATURES

- Simple menu driven user interface
- Low standby power
- External button allows simplified means to view current data values
- USB Type A Host and Mini B Device (2.0)
- Three RS-232 Serial Ports for use with local terminals, displays, modems/satellite, etc.
- Four analog inputs

- SDI-12 Master or Slave Mode
- Quadrature shaft encoder input/ output
- Event counter input (Tipping Bucket Rain Gauge)
- Frequency input (wind speed)
- Scalable 4-20 mA Output
- Data logging using nonvolatile internal storage
- XL Basic Programming
- Integrated Satellite Transmitter (H-522+ only)



H-522+ XL™ Data logger



a **xylem** brand

SPECIFICATIONS

PERFORMAN	CE					
PERFORMAN	<u> </u>					
Pressure	Accuracy	Less than or equal to 0.02% of full				
Transducer		scale output (FSO) over temperature				
(H-350XL Only)		range.				
_	Range	0 to 103.42 kPa (15 psi)				
		(0 to 11 m (34 ft))				
		Accuracy = $\pm 2.1 \text{ mm} (0.007 \text{ ft})$				
		0 to 206.84 kPa (30 psi)				
		(0 to 21 m (69 ft))				
		Accuracy = ± 4.3 mm (0.014 ft) Custom calibration ranges available to 689 kPa (100 psi)				
	Media Non-corrosive dry gases only					
	Compatibility					
Analog Inputs	Channels	4 single ended, 1 differential				
	Resolution	24-Bit Resolution				
	Accuracy	±0.02% FS				
	Range	0 to 5 Volts (all channels)				
	Accuracy.	0 to 500 mV (additional on channel1)				
+5.0 Volt	Accuracy	±5.0 mV over load and temperature				
Excitation	Current	range				
C : 1 1	Type	10 mA (max load) Unregulated based on battery				
Switched	туре					
+12.0 Volt	Current	voltage 2.5 Amps				
Excitation	Current	2.5 Amps				
Frequency	Range	1 to 10 KHz at ± 75mVolts PP or greater				
Input		1 to 20 KHz at ± 1 Volt PP or greater				
input	Amplitude	± 5.0 V Max				
	Accuracy	± 0.1%				
Counter Input	Туре	Switch closure or voltage pulse				
•	Voltage Input	0-5 Volts				
	Frequency Input Channels	100Hz (max) 2, Independently configured for				
Digital I/O	Channels					
	Input Levels	Input or Output 0.0 to 0.5 Volts				
	input Leveis	High = 3.5 Volts or higher				
		Low = 0.8 Volts or less				
	Output Levels	High = 3.5 Volts Min sourcing 5mA				
	Output Levels	Low = 0.4 Volts Max sinking 5mA				
4-20mA	Accuracy	± 0.5% FSO				
	recuracy	= 0.070130				
Output						
SDI-12		aster and Slave modes				
	Connector	3-pin connector				
RS-232	Туре	3 RS-232 communication ports				
	Connector	9-pin D connector, female				
	Baud Rate	Programmable				
MEMORY						
General	Data Storage	256 MB, Non-Volatile FLASH				
	Capacity					
COMMUNICAT	TION					
USB	Туре	1 host USB-A connector				
030	.,,,,,	1 device Mini-B connector				
	Version	USB version 2.0				
External	Туре	GOES/METEOSAT/INSAT				
Satellite	H-350/H-500	H-2221-V2				
Keypad	Туре	1 Line 20 Character Vacuum				
Display		Florescent LED Display				
POWER						
	H-350/H-500	10.0 to 16.0 volts				
Voltage Input	H-522+	11.0 to 16.0 volts				
	022 .	1				

Current	H-350/H-500	Standby: 5 mA Max Active: See Manual		
H-522/ H-522+		Standby:12 mA Max Active:Transmitting: <2.75 A		
ENVIRONM	ENTAL			
General	Operating Temperature	- 40 to +60°C		
	Storage Temperature	- 40 to +80°C		
	Humidity	100% non-condensing		
PHYSICAL				
Size	Housing H-350/H-500/ H-522	180 mm L x 220 mm W x 110 mm H (7 in. L x 8.5 in W x 4.3 in H)		
	Housing H-522+	241.3 mm L x 279.4 mm W x 152.4 mm H (9.5 in. L x 11 in. W x 6 in. H)		
Weight	Shipping H-350/H- 500/H-522	2 kg (4.25 lbs)		
	Shipping H-522+	3.4 kg (7.5 lbs)		
Material	Housing	Fiberglass with clear Lexan® window. *H-522 does not have clear Lexan® window.		
WARRANTY				
and workmans	hip for two years fro	warranted against defects in materials m the date of shipment. For complete		
terms and cond		ww.ysi.com/terms-and-conditions.php		

QUICK SPECIFICATION DETAILS						
XL MODEL DIFFERENCES	H-500XL	H-350XL	H-522	H-522+		
Keyboard Display	X	X		X		
Built in Pressure Sensor		Х				
Built in GOES/METEO- SAT/INSAT satellite transmitter			Х	Х		

ments. LR May, 2016. (D17-10 0516)

For detailed specifications, see user manual. Specifica-

tions subject to change without prior notice due to on-going commitment to product testing and improve-



Note