WaterLOG® Product Guide

HYDROLOGICAL AND METEOROLOGICAL INSTRUMENTATION

We are a world leader in water measurement, providing equipment capable of reliable data collection in extremely harsh conditions. We take pride in providing a broad range of products from sensors and radios, to data loggers and more.
Why WaterLOG?

Since 1972, our objective has been to deliver high quality, high accuracy, long lasting products for environmental conditions and water measurement. Our goal—to meet the needs and standards of you, our customer.

The Team

With many years of combined experience and knowledge, you can be sure that we are ready to assist you at any point in your project. We are dedicated to helping you achieve accurate results.

Unique Products

We take great pride in staying a step ahead of our competitors and providing you with field-proven products. WaterLOG is home to the Storm 3—a unique Data Logger with built-in features such as: Wi-Fi interface, sensor library and one-touch graphical data display.

Design Services

Our field application division specializes in application specific design and implementation for multiple industries.
DATA LOGGERS

APPLICATIONS
- GOES Communication
- Hydrological Monitoring
- Meteorological Monitoring
- Industrial Control
- Surface/Ground/Storm/Waste Water Measurement

STORM 3 BROWSER BASED DATA LOGGER
- Communicate through cellular modems and GOES satellite using a balanced set of inputs for analog, digital I/O and SDI-12 smart sensors
- Simple and intuitive browser-based Graphical user interface (GUI)
- Direct connect or wireless (Wi-Fi) connection for the GUI interface
- Library based sensor setup options

H-500XL DATA LOGGER
- Basic data logger for communication with hydro-met stations
- Communicate with external Satellite, GPRS/GSM modems and other means of communication

H-350XL DATA LOGGER
- Basic data logger for communication with hydro-met stations
- Integrated internal pressure sensor
- When combined with the H-3551, the H-350XL is a complete, self contained bubbler system

H-522/522+ DATA LOGGER
- Basic data logger for communication with hydro-met stations
- Fully integrated Satellite transmitter
- Communicate with external Satellite, GPRS/GSM modems and other means of communication

H-5000 MODULAR DATA ACQUISITION SYSTEM
- View data using the touch screen that includes built-in help menus, powered by a Linux operating system.
- Data can be viewed with the cover closed by using the push-to-read button
- Built-in Ethernet port
- Sensor expandability with modular interface boards

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APPLICATIONS
- GOES Communication
- Hydrological Monitoring
- Meteorological Monitoring
- Industrial Control
- Surface/Ground/Storm/Waste Water Measurement
**SENSORS**

**APPLICATIONS**
- Water Level Monitoring
- Tide Monitoring
- Rainfall Measurement
- Dry Gas Measurement

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**H-3551 BUBBLER**
- Constant flow bubbler accurately measures water level
- Capable of measuring depths up to 115 ft. (35 m) with 50 PSI with external pressure sensor

**H-3553 BUBBLER WITH INTEGRATED PRESSURE SENSOR**
- Constant flow bubbler accurately measures water level
- Measures depths up to 115 ft (35 m) with a 50 PSI calibration
- Auto purge/purge sustain option
- Accuracy over temperature range exceeds ±0.01 ft. (3 mm) of water in a 15 PSI unit
- Configure features through optional display

**H-3531 “FLASHLITE” PRESSURE SENSOR**
- Directly measure dry gas with an accuracy greater than 0.02% FSO
- Programmable continuous outputs
- Low current operation (less than 1mA standby)
- Accuracy over temperature range exceeds ±0.01 ft. (3 mm) of water in a 15 PSI unit

**H-3521 “FLUID” PRESSURE SENSOR**
- Directly measure water, antifreeze or other fluid pressure with an accuracy better than 0.05% FSO
- Low current operation (less than 200 µA standby)
- Accuracy over temperature range exceeds ±0.04 ft. (12 mm) of water

**H-3401 TIPPING BUCKET RAIN GAUGE**
- Measure rainfall and maintain accuracy at increased rates ranging from 0-25 in. (635 mm) per hour.
- SDI-12 output
- Magnetic reed bucket tip sensor
- Two removable stainless steel funnel screens
- Built in microprocessor automatically corrects errors
H-3611/12/13
SDI-12 RADAR WATER LEVEL SENSOR

- Accurately measure river, lake, well, ocean and waste water levels through non-contact transmission
- Low current operation (8.0mA)
- Continuous operation—no warm up or lock on
- Frequency range 26 Ghz
- Accuracy range ±0.01 ft. (3 mm)

H-380
RELATIVE HUMIDITY/TEMPERATURE PROBE

- Accurately measure atmospheric temperature and relative humidity.
- Humidity sensor resists condensation and contaminants
- Interchangeable HygroClip model can be quickly replaced with no loss of accuracy and no calibration in the field.

H-3123
SUBMERSIBLE PRESSURE TRANSDUCER

- Accurately measure ground and surface water pressure, temperature and level
- Transmit data digitally over long cable lengths of up to 1000 ft. (304.8 m)
- Accuracy over temperature range exceeds ±0.01 ft. (3 mm) of water

H-3301/11/42
DIGITAL SHAFT ENCODER

- Measure water level in a stilling well by monitoring the position of a float and pulley
- Magnetic sensor to minimize static sensitivity.
- Built in LCD display included in the H-3311 and H-3342 models

H-377
AIR/SOIL/WATER TEMPERATURE PROBE

- Measure air, soil or water temperature for accurate and reliable data
- Long-term calibration free operation
- Temperature measurement with precision thermistor probe provides fast response and high accuracy
SENSORS

APPLICATIONS
- Weather Forecasting
- Solar Radiation Monitoring
- Atmospheric Pressure
- Dam Gate Control

H-375 HIGH PERFORMANCE WIND SENSOR
- Measure horizontal wind speed and direction
- Light weight, corrosion resistant construction
- UV stabilized plastic with stainless steel and anodized aluminum fittings

H-378 BAROMETRIC SENSOR
- Measure atmospheric pressure measurements
- Housed inside the Agriculture / Meteorological data enclosure
- Vented to the outside for protection and proper measurement
- Rugged enough for extreme conditions

H-3791 SILICON PYRANOMETER SENSOR
- Measure global solar radiation within all types of applications and studies
- High stability silicon photovoltaic detector mounted within a fully cosine-corrected miniature head

H-335 PRECISION INCLINOMETER
- Measure the angle (position) of radial water control gates
- Gravity referenced sensor allows installation anywhere on the gate structure
- Eliminates shaft encoders, gears, chains and other non-linear measurement schemes

A R M Young Product
A Setra Product
A Kipp & Zonen Product
COMMUNICATION

APPLICATIONS

- Hydrological Monitoring
- Meteorological Monitoring
- Transmit Data through GOES/METEOSAT/INSAT

NOTE

- Contact your local sales office for satellite options available for your region.

H-2221-V2
SATELLITE TRANSMITTER

- Transmit sensor readings over the GOES satellite system by linking to any XL series, H-5000 or Storm Data Loggers
- Certified for self-timed and random transmissions
- Compatible with GOES/METEOSAT/INSAT

H-2191
VOICE/DATA MODEM SERIES

- Transmit gauge station measurement data over various communication links
- Automatic voice call out from remote site on user defined alarm conditions
- Compatible with other data loggers for basic

H-427 SPREAD SPECTRUM RADIO SERIES

- Communicate with SDI-12 sensors with this spread spectrum radio bridge.
- Operate in the license free, 900 Mhz ISM band, eliminating the need for any FCC licensing

H-264
ALERT SERIAL INTERFACE

- Accept ALERT ID and data reports in variety of serial data formats.
- Automatic conversion from ASCII ALERT format input to binary ALERT transmissions
- Control power, audio and PTT lines of an attached transmitter to send a standard ALERT binary format transmission.

APPLICATIONS

- Hydrological Monitoring
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NOTE

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ACCESSORIES

APPLICATIONS
• Convert connections / media
• Monitor communication
• Transmit Data

H-4161
SDI 12 TO
4-20mA INTERFACE
• Connect any SDI-12 sensor to a PLC, RTU or other device which has a 4-20mA input.
• Initiate measurements to an attached sensor if no data logger is used
• Built-in 2-line LCD display shows the current SDI-12 data and milliamp output values

H-4191
RS-232 TO
SDI HOST INTERFACE
• Interface to a laptop computer to configure and test SDI-12 sensors as well as monitor the communication between a data logger and its sensors.
• Buffers the command so no special timing is required
• Automatically sends SDI-12 breaks and retries

H-4501
FIBEROPTIC MEDIA CONVERTER
• Communicate over long distances with the fiberoptic link that is compatible with data loggers and sensors
• Ideal for areas with severe interference such as near heavy electrical equipment, welding or radio.
• Simple to instal, use and maintain.

H-4280
8-CHANNEL SDI-12 ANALOG INPUT MODULE
• Provide measurement data in engineering units such as temperature, feet or meters with this intelligent “sensor”
• Can be connected directly to any SDI-12 compliant data logger
• Supports unipolar (0-5V), bipolar (± 5V) and differential (0-5V & ± 5V) operation

H223
401.8 MHZ GOES SATELLITE ANTENNA
• Use with hydrological and meteorological stations
• High-gain Yagi antenna designed for use with fixed location, GOES satellite data collection platforms
• Compatible with any GOES transmitter
DATA HOSTING

APPLICATIONS
- Data Graphing in Graphical and Tabular Format
- Hydrological Monitoring
- Meteorological Monitoring
- Alarm Notifications
- Data Logger Communications

STORM CENTRAL
- Use this cloud hosted data solution to collect data through push communication, from the Storm 3 data logger in real-time.
- Communicate through devices such as cell modems, GOES and other transmitters.
- View data in graphical as well as tabular form.
- Compatible with certain competitor loggers (ask sales consultant)

STORM LOCAL
- Install Storm Local on a local PC and collect data through polling the Storm 3 site through the PC, Smart Phone or tablet.
- Hosted on a local server
- Data is presented in graphical and tabular format.

HYDROLOGICAL / METEOROLOGICAL MONITORING IS RECORDED BY THE STORM 3 DATA LOGGER.

STORM 3 DATA LOGGER SENDS DATA TO STORM CENTRAL THROUGH PUSH COMMUNICATION, AND STORM LOCAL THROUGH POLL COMMUNICATION.

STORM CENTRAL SITE COLLECTS DATA FROM THE STORM 3 IN REAL TIME.

DATA IS PRESENTED IN GRAPHICAL AS WELL AS TABULAR FORMAT.
SALES OFFICE LOCATIONS

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What Can Xylem Do For You?

Xylem [ˈzɪleɪm]

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We’re 12,900 people unified in a common purpose: creating innovative solutions to meet our world’s water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com

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