



# MODEL H-3551T

THE "SMART-GAS" SYSTEM

The WaterLOG® model **H-3551T** "SMART-GAS" is a **constant flow** bubbler. Replace the dangerous high-pressure gas bottles, oil sight feeds, flow regulators, and leaky manifolds found in gas purge pressure measurement systems with this unit.

## APPLICATIONS

Accurately monitor stream, lakes, wells, ocean, and waste water levels.

## KEY FEATURES

- Operates in depths up to 115 ft (35 m) with 50 PSI
- No mercury
- No sight feed oil in orifice line
- No needle valve or diaphragm problems
- SDI-12 and RS-485 interfaces
- Automatic purge
- Programmable bubble rate of 30 to 120 per minute
- Flow rates are programmable
- Sleep current 6mA
- Connects to H-350XL making a complete bubble gage



H-3551T "Smart Gas" System



a xylem brand

# SPECIFICATIONS

PERFORMANCE		
Gas Delivery	Microprocessor controlled unit	
	Gas Flow Technology	Constant mass flow
	Gas Flow Control	Bubble rate is user programmable from 30 to 120 bubbles per minute based on 1/4 in. (6.35 mm) tubing. Auto zero error controlled flow nozzle.
Purge Functions	Pressure Level	User selectable 15 PSI to 80 PSI
	Options	<ul style="list-style-type: none"> <li>• Manual</li> <li>• SDI driven purge</li> <li>• Remote controlled</li> <li>• Automatic/Programmable</li> </ul>
Compressor	Piston compressor	
	Operation	Low duty cycle (7 hours typical) runtime per year at 60 bubbles per minute flow rate into 12 ft. head of water (3.65 m) (purges not included)
MECHANICAL / POWER		
Size	Housing	10 in. W x 12 in. L x 6 in. H 25.4 cm W x 30.48 cm L x 15.24 cm H
Weight	Housing	12 lbs. (5.4 kg)
Material	Housing	Sealed corrosion resistant fiberglass
Power Requirements	Qualified for 12 volt battery operation	
	Two Supply Inputs	Electronics supply via the RS-485 cable (10 to 16 volts) Compressor supply (10 to 16 volts)
	24 hour average current draw	< 15mA based on a 60 bubbles per minute flow rate with 1 daily purge cycle
	Current	Compressor Active, No Pressure: 3 A Compressor Active, Full Pressure: 6 A Startup Surge Required: 15 A
Connector	Mounting	Hardware supplied for wall mounting
	Orifice Line Outlet	1/8 in (.3175 cm) FNPT
	Sensor Pressure Outlet	1/8 in (.3175 cm) FNPT
COMMUNICATION		
RS-485 Electrical Specifications	Baud Rate	9600
	Protocol	Custom
	Commands	Half-duplex, 8-bit, no parity, 1 stop bit

SDI-12	Baud Rate	1200
	Protocol	SDI-12 V1.3, 7-bit even parity, 1 stop bit
	Minimum High Level	3.5 volts
	Maximum Low Level	0.8 volts
ENVIRONMENTAL		
General	Standard Operating Range	-40° to 60° C
	Storage	-50° to 80° C
	It is recommended to install unit in weather shielded enclosure	
MISCELLANEOUS		
Ordering Information	H-3551	Base model number
	Complete Automatic Gas Flow System	Order with the H-350 XL™ pressure measurement system.
Warranty	The WaterLOG® H-3551 is warranted against defects in materials and workmanship for two 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 (D45-02 0615)	