## Single Orifice Constant Flow Bubble Gauge/Recorder

## Overview

The Accubar<sup>\*</sup> Constant Flow (CF) Bubble Gage is a self-contained, precision device to measure water levels & water temperature, consisting of a pump, tank, manifold, control board, display/ keypad & enclosure. 

Image: Construction of the construc

The CF Bubbler's built-in precision Accubar<sup>\*</sup> Pressure Sensor meets

the high accuracy requirements for streamgaging & monitoring of tidal/coastal areas, estuaries, groundwater & reservoirs. The Bubbler includes a built-in datalogger for stand-alone operation &/or backup (redundant) data recording and RS232 & SDI-12 ports for communications & maintenance. Also supports MODBUS.

## Features

- New Models with Water Temperature Measurements
- Self-contained system needing only external power & outlet tubing/orifice
- Long desiccant life (up to 1 year)
- Adjustable bubble rate
- Configurable averaging
- Auto-zero function
- User-variable auto purge & user-forced purge option
- Flexible auto blockage detection
- Modifiable auto measurement & logging
- The CF Bubbler supports MODBUS protocol.
- Built-in flash log for over 300,000 readings
- Stand-alone or operate with other loggers/communication devices
- Front panel setup & maintenance.
- SDI-12, RS232 & RS485 interfaces compatible with loggers, cell modems &
- Sutron's SatLink2 Transmitter/Logger
- Swing-out front panel for easy maintenance.
- 3 levels of filtration
- Easier re-calibration

## Applications

- Meteorology
- Climatology
- Agrometeorology
- Natural Resources
- Oceanography
- Disaster Warning
- ▶ Water Level & Flow
- Water Quality
- Hydrology
- Structures
- Geotechnical
  - ✓ Dam Safety
  - ✓ Structural Stability

ct to Change without Notice Stage/Level, Pressure, Internal Temp, Battery, Optional: water temperature 1 second to 24 hours Pressure/stage/Level: 0.05% reading with minimum of 0.01 ft. Constant Flow. Bubble rate programmable by user. Pressure measured by Accubar*. 25 psi, 57 ft, 17 meters; 50 psi, 115 ft,35 meters Platinum 385, Platinum 392, Thermistor, Custom -40°C to +60°C sapply to specific Sutron-supplied Water -0100-100 & 5600-0030-1-050. (See
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±0.1°C (-5°C to +45°C )
0.01°C
50 psi or 70 psi based on model
Silica Gel, lasts up to a year
4/6mm tube or 3/8" tube based on model
Piston
Fiberglass NEMA-4, IP64, lockable
SDI-12, RS232, RS485
-25°C to +60°C standard, -40°Cto +60°C optional 0-95% non-condensing humidity
2x20 LCD with backlight
6 button
o button
>300,000 readings
yes
no 8 to 16 VDC
4 amp for 25 psi unit
8 amp for 50 psi <15mA for 3 second measurement every 15
minutes, no purge MODBUS (via RS232 only), SDI-12, command line
via front panel, commandline or SDI-12
15" (38.1 cm)
12" (30.5 cm)
7.5" (19.1 cm)
20 lbs. (9.1 kg)
eable Calibration

Development Manager (http://www.sutron.com/worldwidecontacts.htm) or with Sutron Sales Administration (703-406-2800)

ORDERING		
56-0133-25-1	Accubar <sup>®</sup> Constant Flow Bubble Gage/Recorder, 25 psi range	
56-0133-50-1	Accubar <sup>®</sup> Constant Flow Bubble Gage/Recorder, 50 psi range	
56-0133-25-1P	Accubar Constant Flow Bubbler - without Enclosure	
56-0133-25-1C	Accubar <sup>®</sup> Constant Flow Bubble Gage/Recorder, 25 psi range, 6mm Orifice Lines (Canada users)	
56-0133-50-1C	Accubar <sup>*</sup> Constant Flow Bubble Gage/Recorder, 50 psi range , 6mm Orifice Lines for Canadian <sup>*</sup> users	
MODEL with WATER TEMPERATURE		
56-0133-25-1-T	Accubar <sup>*</sup> Constant Flow Bubble Gage/Recorder, 25 psi range with Water Temperature Sensor Port	
56-0133-50-1-T	Accubar <sup>®</sup> Constant Flow Bubble Gage/Recorder, 50 psi range with Water Temperature Sensor Port	
56-0133-50- 1C-T	Accubar <sup>®</sup> Constant Flow Bubble Gage/Recorder 50 psi range with Water Temperature Sensor Port, 6mm Orifice Lines	
ACCESSORIES		
2911-1183	Tubing, Orifice Line Black Polyurethane up to 2000 feet (609.6 m.)	
2911-1279-1	Replacement Desiccant, full canister	
6661-1314-1	Orifice Termination, fits on a 2" rigid pipe	
5600-0100- 100	Platinum 385 Water Temperature Sensor w/100ft cable	
5600-0030-1- 050	Thermistor Water Temperature Sensor w/50ft cable	
SHIPPING DIMENSIONS		
Height	20 in. (51 cm)	
Length	15 in. (38.1 cm)	
Width	10 in. (25.4 cm)	
Weight	22 lbs. (10 Kg)	
*Canadian models are provided with 6mm O.D.		

\*Canadian models are provided with 6mm O.D. orifice line connections. All other models have a 3/8 in orifice connection.