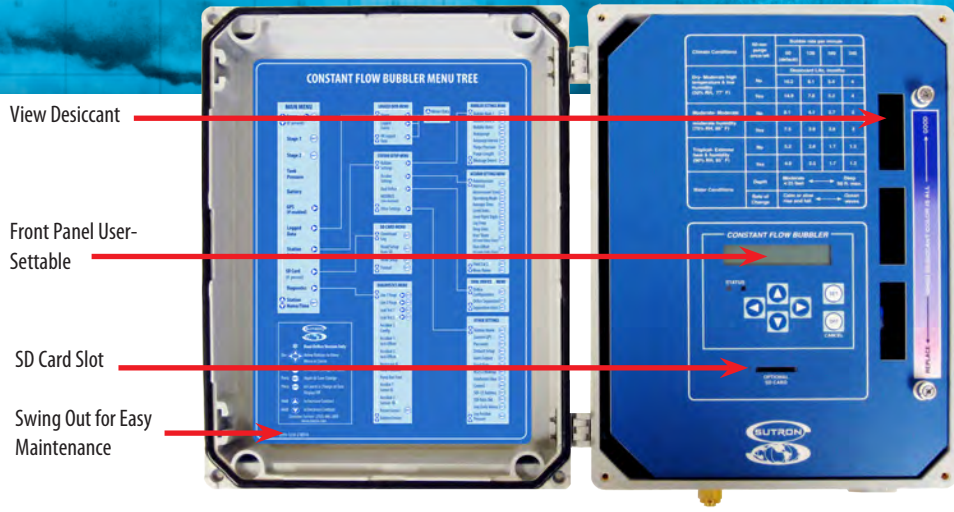


Accubar® Constant Flow (CF) Bubble Gage/Recorder

All-in-One Precision Device for Measuring Water Levels



All Included in One
NEMA-4 Enclosure

- ▶ Compressor
- ▶ Sensor
- ▶ Data Logger
- ▶ Desiccant

The Accubar® Constant Flow (CF) Bubble Gage is a self-contained, precision device for measuring water levels that consists of a pump, tank, manifold, control board, display/keypad & enclosure.

The CF Bubbler's built-in precision Accubar® 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

- ▶ 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 interfaces compatible with loggers, cell modems, SatLink2 Transmitter/Logger
- ▶ Swing-out front panel for easy maintenance.
- ▶ 3 levels of filtration
- ▶ Easier re-calibration

Specifications

ELECTRICAL

Power Required	8-16VDC, 4 amp
Average Power	<8.3 mA @ 12 V for 3 sec. measurement every 15 min.
Interface	SDI-12 V1.3, RS232
Quiescent Current	<1 mA
Pressure Range	0-25 psi
Accuracy	0-20 ft., ±0.01 ft.*
	20 -57.5 ft., ±0.05% of reading* (Reference to ft. based on USGS conversion factor 2.3703 ft water per psi)
Resolution	0.0001 psi
Purge Pressure	>= 50 psi
Bubble Rate	User Settable
Compressor Type	Piston

MECHANICAL

Enclosure	NEMA-4 fiberglass
Dimensions	12 in. x 15 in. x 7.5 in.
Connections	8 position terminal block
Pressure Outlet	3/8 in. O.D. tubing

ENVIRONMENTAL

Temperature	-25°C to +60°C Standard
	-40°C to +60°C (Testing)
Humidity	0-95% non-condensing

Ordering

56-0133-25-1	Accubar® Constant Flow Bubble Gage 25 psi range (standard)
56-0133-25-1P	Accubar Constant Flow Bubbler – No Enclosure
TBD	Extended Temperature CF Bubbler (-40°+60°C) Test Phase

ACCESSORIES

2911-1183	Tubing, Orifice Line Black Polyurethane up to 2000 feet (609.6 m.)
2911-1279-1	Replacement Desiccant, full canister



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