## Compact Constant Flow (CF) Bubbler

## Overview

The Compact Constant Flow Bubbler (Part #56-0133-25-1ST), 50% smaller than Sutron's original Constant Flow Bubbler, is a self-contained, precision device to measure water levels & temperature. It consists of a pump, tank, manifold, control board, display/keypad & enclosure. The new Compact CF Bubbler houses all components within a 10.5"x 8.5"x 7.5" polycarbonate NEMA-4X enclosure.

The Compact Constant Flow Bubbler's built-in precision Accubar® Pressure Sensor meets the high accuracy requirements for stream gaging & monitoring of tidal/coastal areas, estuaries, groundwater & reservoirs.

The Bubbler includes a built-in datalogger for stand-alone operation and/or backup (redundant) data recording, RS232 and SDI-12 ports for communications and maintenance, and a desiccant kit. The front panel includes a display and keypad. It also supports MODBUS.

## **Features**

- ▶ 50% smaller than the original Constant Flow Bubbler (by volume)
- Optional water temperature measurements
- Fast-track mode
- Self-contained system needing only external power & outlet tubing/ orifice
- Long desiccant life (up to 1 year)
- Adjustable bubble rate
- Auto-zero function
- Supports MODBUS protocol
- Configurable averaging
- User-variable auto purge & user-forced purge option
- Flexible auto blockage detection
- Modifiable auto measurement & logging
- Built-in flash log for over 300,000 readings
- ▶ Stand-alone or operation with other loggers/communication devices
- Precision Accubar® Pressure Sensor
- Front panel setup & maintenance.
- SDI-12/RS232 interfaces compatible with loggers, cell modems, SatLink2 Transmitter/Logger
- Swing-out front panel for easy maintenance.
- Easier re-calibration
- 3 Levels of filtration
- Single orifice





## **Applications**

- Water Level Monitoring
- Dam Safety
- Tidal Monitoring
- Stream gauging
- Ideal for streams with high amounts of sediment

\*by volume

Specifications subject to change without notice    Stage/Level	Sutron Corporation Compact Constant Flow Bubbler			
Automeasure Interval  Automeasure Interval  Accuracy Stage/Level/Pressure  O-20 ft.: ±0.01 ft. 20-57.5 ft. ±0.05% reading Reference to ft. based on USGS conversion factor 2.3073 ft. water per psi.  Measurement Technique Constant Flow Bubbler with user-programmed bubble rate Pressure measured by Sutron Accubar® Sensor.  Stage/Level/Pressure Range 25 psi, 57 ft (17 meters)  Measurement Technique Platinum RTD (385 or 392) or Precision thermistor.  Maximum Purge Pressure So psi  Desiccant Silica gel, lasts up to a year  Outlet 6 mm O.D. tube or 3/8" O.D. tube  Enclosure Polycarbonate NEMA-4X  Communication Ports SDI-12, RS232, RS485  Operating Temperature Range Operating Humidity Range Oto 95% noncondensing  Display Operating Included USB no  Ethernet Included USB No  Ethernet Included USB No  Ethernet Included Inc	0. 20. 10. 110.10			
Automeasure Interval  Automeasure Interval  Accuracy Stage/Level/Pressure  O-20 ft.: ±0.01 ft. 20-57.5 ft. ±0.05% reading Reference to ft. based on USGS conversion factor 2.3073 ft. water per psi.  Measurement Technique Constant Flow Bubbler with user-programmed bubble rate Pressure measured by Sutron Accubar® Sensor.  Stage/Level/Pressure Range 25 psi, 57 ft (17 meters)  Measurement Technique Platinum RTD (385 or 392) or Precision thermistor.  Maximum Purge Pressure So psi  Desiccant Silica gel, lasts up to a year  Outlet 6 mm O.D. tube or 3/8" O.D. tube  Enclosure Polycarbonate NEMA-4X  Communication Ports SDI-12, RS232, RS485  Operating Temperature Range Operating Humidity Range Oto 95% noncondensing  Display Operating Included USB no  Ethernet Included USB No  Ethernet Included USB No  Ethernet Included Inc				
Accuracy Stage/Level/Pressure  O-20 ft.: ±0.01 ft. 20-57.5 ft. ±0.05% reading Reference to ft. based on USGS conversion factor 2.3073 ft. water per psi.  Measurement Technique  Constant Flow Bubbler with user-programmed bubble rate Pressure measured by Sutron Accubar® Sensor.  Stage/Level/Pressure Range Platinum RTD (385 or 392) or Precision thermistor.  Maximum Purge Pressure Sol psi  Desiccant Silica gel, lasts up to a year Outlet 6 mm O.D. tube or 3/8" O.D. tube Enclosure Polycarbonate NEMA-4X Communication Ports SDI-12, RS232, RS485 Operating Temperature Range Operating Humidity Range Oto 95% noncondensing UCD operates to -20°C Temperature USB Desided USB No Ethernet No Power Requirements In to 16 VDC Max Current A amps for 25 psi unit Communication Protocols Supported Setup Via front panel, command line or SDI-12 Device Dimensions  Height 10.5" (26.7cm) Weight (including enclosure) Platinum 385, Platinum 392, Thermistor, Custom Range The following specifications apply to specific Sutron-supplied Water Temperature Sensor Specifications apply to specific Sutron-supplied Water	Measurements	Internal Temperature Battery		
Stage/Level/Pressure Reference to ft. based on USGS conversion factor 2.3073 ft. water per psi.  Measurement Technique Constant Flow Bubbler with user-programmed bubble rate Pressure measured by Sutron Accubar® Sensor.  Stage/Level/Pressure Range Platinum RTD (385 or 392) or Precision thermistor.  Maximum Purge Pressure So psi Desiccant Silica gel, lasts up to a year Outlet 6 mm O.D. tube or 3/8" O.D. tube Enclosure Polycarbonate NEMA-4X Communication Ports SDI-12, RS232, RS485 Operating Temperature Range Operating Humidity Range Display Operating Temperature Display Type 2x20 character sunlight-readable backlit LCD Keypad Type Built-in flash >300,000 readings SD card included USB no Ethernet no Power Requirements I0 to 16 VDC Max Current 4 amps for 25 psi unit Communication Protocols Supported Setup Via front panel, command line or SDI-12 Device Dimensions Height 10.5" (26.7cm) Length X5" (19.1cm) Width 8.5" (21.6cm) Weight (including enclosure) IV Sensor Operational Range The following specifications apply to specific Sutron-supplied Water Temperature Sensor Specifications apply to specific Sutron-supplied Water	Automeasure Interval	1 second to 24 hours		
bubble rate Pressure measured by Sutron Accubar* Sensor.  Stage/Level/Pressure Range  Measurement Technique Platinum RTD (385 or 392) or Precision thermistor.  Maximum Purge Pressure Desiccant Silica gel, lasts up to a year Outlet 6 mm O.D. tube or 3/8" O.D. tube Enclosure Polycarbonate NEMA-4X Communication Ports SDI-12, RS232, RS485 Operating Temperature Range Operating Humidity Range Operating Humidity Range Oisplay Operating Temperature Display Type 2x20 character sunlight-readable backlit LCD Keypad Type 6 button Memory Built-in flash >300,000 readings SD card included USB no Ethernet no Power Requirements 10 to 16 VDC Max Current 4 amps for 25 psi unit Communication Protocols Supported Setup Via front panel, command line or SDI-12 Device Dimensions Height 10.5" (26.7cm) Height 10.5" (26.7cm) Width 8.5" (21.6cm) Weight (including enclosure) NIST Traceable Calibration Water Temperature Sensor Specifications Types Supported Platinum 385, Platinum 392, Thermistor, Custom Sensor Operational Range The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	•	20-57.5 ft: ±0.05% reading Reference to ft. based on USGS conversion		
Measurement Technique         Platinum RTD (385 or 392) or Precision thermistor.           Maximum Purge Pressure         50 psi           Desiccant         Silica gel, lasts up to a year           Outlet         6 mm O.D, tube or 3/8" O.D, tube           Enclosure         Polycarbonate NEMA-4X           Communication Ports         SDI-12, RS232, RS485           Operating Temperature         -25°C to +60°C standard, -40°C to +60°C optional           Operating Humidity Range         0 to 95% noncondensing           Display Operating Temperature         LCD operates to -20°C           Display Type         2x20 character sunlight-readable backlit LCD           Keypad Type         6 button           Memory         Built-in flash         >300,000 readings           SD card         included           USB         no           Ethernet         no           Power Requirements         10 to 16 VDC           Max Current         4 amps for 25 psi unit           Communication Protocols Supported         MODBUS (via RS232 only), SDI-12, command line or SDI-12           Device Dimensions         Height         10.5" (26.7cm)           Length         7.5" (19.1cm)           Width         8.5" (21.6cm)           Weight (including enclosure)         12.2 lbs	Measurement Technique	bubble rate		
Maximum Purge Pressure  Desiccant  Silica gel, lasts up to a year  Outlet  Enclosure  Polycarbonate NEMA-4X  Communication Ports  Operating Temperature Range  Operating Humidity Range  Display Operating Temperature  Display Type  Sali-1, RS232, RS485  Companity Poperating Temperature  Display Operating Temperature  Display Type  Salit-in flash  Sal	Stage/Level/Pressure Range	25 psi, 57 ft (17 meters)		
Desiccant  Outlet  6 mm O.D. tube or 3/8" O.D. tube  Enclosure  Polycarbonate NEMA-4X  Communication Ports  SDI-12, RS232, RS485  Operating Temperature Range  Operating Humidity Range  Display Operating Temperature  Display Type  LCD operates to -20°C  Keypad Type  6 button  Memory  Built-in flash  >300,000 readings  SD card  included  USB  no  Ethernet  no  Power Requirements  10 to 16 VDC  Max Current  4 amps for 25 psi unit  Communication Protocols Supported  Setup  Via front panel, command line or SDI-12  Device Dimensions  Height  Length  7.5" (19.1cm)  Width  8.5" (21.6cm)  Weight (including enclosure)  Wist Traceable Calibration  Water Temperature Sensor Specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Measurement Technique			
Outlet 6 mm O.D. tube or 3/8" O.D. tube  Enclosure Polycarbonate NEMA-4X  Communication Ports SDI-12, RS232, RS485  Operating Temperature Range optional Pore Supported Setup Via front panel, command line or SDI-12  Device Dimensions Polycarbonate NEMA-4X  SDI-12, RS232, RS485  Operating Temperature optional Polycarbonate New Supported Sensor Operating Temperature  Display Operating LCD operates to -20°C  Everyad Type 2x20 character sunlight-readable backlit LCD  Keypad Type 6 button  Memory Suilt-in flash >300,000 readings  SD card included  USB no  Ethernet no  Power Requirements 10 to 16 VDC  Max Current 4 amps for 25 psi unit  Communication Protocols Supported  Setup Via front panel, command line or SDI-12  Device Dimensions Height 10.5" (26.7cm)  Length 7.5" (19.1cm)  Width 8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Range The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Maximum Purge Pressure	50 psi		
Enclosure Polycarbonate NEMA-4X  Communication Ports SDI-12, RS232, RS485  Operating Temperature Range O to 95% noncondensing  Display Operating Temperature Polycompations	Desiccant	Silica gel, lasts up to a year		
Communication Ports  SDI-12, RS232, RS485  Operating Temperature Range  Ot 05°C to +60°C standard, -40°C to +60°C optional  Operating Humidity Range  Ot 095% noncondensing  LCD operates to -20°C  Temperature  Display Operating Temperature  Display Type  2x20 character sunlight-readable backlit LCD  Keypad Type  6 button  Memory  Built-in flash  >300,000 readings  SD card  included  USB  no  Ethernet  no  Power Requirements  10 to 16 VDC  Max Current  4 amps for 25 psi unit  Communication Protocols Supported  Setup  Via front panel, command line or SDI-12  Device Dimensions  Height  10.5" (26.7cm)  Length  7.5" (19.1cm)  Width  8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Outlet	6 mm O.D. tube or 3/8" O.D. tube		
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Range optional Operating Humidity Range 0 to 95% noncondensing Display Operating Temperature Display Type 2x20 character sunlight-readable backlit LCD Keypad Type 6 button  Memory 8 Built-in flash >300,000 readings SD card included USB no Ethernet no Power Requirements 10 to 16 VDC Max Current 4 amps for 25 psi unit Communication Protocols Supported Setup Via front panel, command line or SDI-12 Device Dimensions Height 10.5" (26.7cm) Length 7.5" (19.1cm) Width 8.5" (21.6cm) Weight (including enclosure) NIST Traceable Calibration Water Temperature Sensor Specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Communication Ports	SDI-12, RS232, RS485		
Display Operating Temperature  Display Type  2x20 character sunlight-readable backlit LCD  Keypad Type  6 button  Memory  Built-in flash  >300,000 readings  SD card included  USB no  Ethernet no  Power Requirements 10 to 16 VDC  Max Current 4 amps for 25 psi unit  Communication Protocols Supported  Setup Via front panel, command line or SDI-12  Device Dimensions  Height 10.5" (26.7cm)  Length 7.5" (19.1cm)  Width 8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050				
Temperature  Display Type  2x20 character sunlight-readable backlit LCD  Keypad Type  6 button  Memory  Built-in flash  >300,000 readings  SD card  included  USB  no  Ethernet  no  Power Requirements  10 to 16 VDC  Max Current  4 amps for 25 psi unit  Communication Protocols Supported  Setup  Via front panel, command line or SDI-12  Device Dimensions  Height  10.5" (26.7cm)  Length  7.5" (19.1cm)  Width  8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Operating Humidity Range	0 to 95% noncondensing		
Keypad Type       6 button         Memory       s300,000 readings         SD card       included         USB       no         Ethernet       no         Power Requirements       10 to 16 VDC         Max Current       4 amps for 25 psi unit         Communication Protocols Supported       MODBUS (via RS232 only), SDI-12, command line Supported         Setup       Via front panel, command line or SDI-12         Device Dimensions       Height         Height       10.5" (26.7cm)         Length       7.5" (19.1cm)         Width       8.5" (21.6cm)         Weight (including enclosure)       12.2 lbs without dessicant (5.6 Kg)         NIST Traceable Calibration         Water Temperature Sensor Specifications       Platinum 385, Platinum 392, Thermistor, Custom         Sensor Operational Range       -40°C to +60°C         The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050		LCD operates to -20°C		
Memory  Built-in flash >300,000 readings  SD card included  USB no  Ethernet no  Power Requirements 10 to 16 VDC  Max Current 4 amps for 25 psi unit  Communication Protocols Supported MODBUS (via RS232 only), SDI-12, command line Supported  Setup Via front panel, command line or SDI-12  Device Dimensions  Height 10.5" (26.7cm)  Length 7.5" (19.1cm)  Width 8.5" (21.6cm)  Weight (including enclosure) 12.2 lbs without dessicant (5.6 Kg)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Display Type	2x20 character sunlight-readable backlit LCD		
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SD card included  USB no  Ethernet no  Power Requirements 10 to 16 VDC  Max Current 4 amps for 25 psi unit  Communication Protocols Supported  Setup Via front panel, command line or SDI-12  Device Dimensions  Height 10.5" (26.7cm)  Length 7.5" (19.1cm)  Width 8.5" (21.6cm)  Weight (including enclosure) 12.2 lbs without dessicant (5.6 Kg)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Memory			
USB no  Ethernet no  Power Requirements 10 to 16 VDC  Max Current 4 amps for 25 psi unit  Communication Protocols Supported Via front panel, command line or SDI-12  Device Dimensions  Height 10.5" (26.7cm)  Length 7.5" (19.1cm)  Width 8.5" (21.6cm)  Weight (including enclosure) 12.2 lbs without dessicant (5.6 Kg)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range -40°C to +60°C  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Built-in flash	>300,000 readings		
Power Requirements  10 to 16 VDC  Max Current  4 amps for 25 psi unit  Communication Protocols Supported  NODBUS (via RS232 only), SDI-12, command line  Setup  Via front panel, command line or SDI-12  Device Dimensions  Height  10.5" (26.7cm)  Length  7.5" (19.1cm)  Width  8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	SD card	included		
Power Requirements  Max Current  4 amps for 25 psi unit  Communication Protocols Supported  NODBUS (via RS232 only), SDI-12, command line Supported  Via front panel, command line or SDI-12  Device Dimensions  Height  10.5" (26.7cm)  Length  7.5" (19.1cm)  Width  8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	USB	no		
Max Current4 amps for 25 psi unitCommunication Protocols SupportedMODBUS (via RS232 only), SDI-12, command lineSetupVia front panel, command line or SDI-12Device Dimensions10.5" (26.7cm)Length7.5" (19.1cm)Width8.5" (21.6cm)Weight (including enclosure)12.2 lbs without dessicant (5.6 Kg)NIST Traceable CalibrationWater Temperature Sensor SpecificationsPlatinum 385, Platinum 392, Thermistor, CustomSensor Operational Range-40°C to +60°CThe following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Ethernet	no		
Communication Protocols Supported  NODBUS (via RS232 only), SDI-12, command line Setup  Via front panel, command line or SDI-12  Device Dimensions  Height  10.5" (26.7cm)  Length  7.5" (19.1cm)  Width  8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Power Requirements	10 to 16 VDC		
Setup Via front panel, command line or SDI-12  Device Dimensions  Height 10.5" (26.7cm)  Length 7.5" (19.1cm)  Width 8.5" (21.6cm)  Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Max Current	4 amps for 25 psi unit		
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Width 8.5" (21.6cm)  Weight (including enclosure) 12.2 lbs without dessicant (5.6 Kg)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range -40°C to +60°C  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Height	10.5" (26.7cm)		
Weight (including enclosure)  NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported  Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Length			
NIST Traceable Calibration  Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range -40°C to +60°C  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Width	8.5" (21.6cm)		
Water Temperature Sensor Specifications  Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range -40°C to +60°C  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	enclosure)		nt (5.6 Kg)	
Types Supported Platinum 385, Platinum 392, Thermistor, Custom  Sensor Operational Range -40°C to +60°C  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050				
Sensor Operational -40°C to +60°C Range  The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050			700 The americal and Country	
The following specifications apply to specific Sutron-supplied Water Temperature Sensor 5600-0030-1-050	Sensor Operational			
·	The following specifications apply to specific Sutron-supplied Water			
Resolution 0.01°C	-	0.01°C		

ORDERING		
COMPACT CONSTANT FLOW BUBBLER WITH DISPLAY**		
56-0133-25-1S*	Compact Constant Flow Bubbler with 3/8" fitting (Desiccant Kit Included)	
56-0133-25-1ST*	Compact Constant Flow Bubbler w/3/8" fitting & water temperature option (Desiccant Kit Included. Order water temp sensor separately.)	
56-0133-25-1SC*	Compact Constant Flow Bubbler with 6mm fitting (Desiccant Kit Included)	
56-0133-25-1SCT*	Compact Constant Flow Bubbler w/6mm fitting & water temperature option (Order sensor separately. Desiccant Kit Included.)	
56-0133-25-1SP*	Compact Constant Flow Bubbler w/3/8" fitting & no enclosure (Desiccant Kit Included.)	
BBL-ET	Bubbler -40°C Extended Temperature Test	
WATER TEMPERATURE SENSOR		
5600-0030-1-050	Thermistor Water Temperature Sensor w/50ft cable	
ACCESSORIES		
6661-1320-1*	Desiccant Kit (tubing, adapter, clamps, full desiccant canister)	
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	
6661-1293	Replacement SD Cards	



\*Desiccant **MUST BE USED** with the Compact Bubbler. Desiccant Kit Included.

 $\ensuremath{^{**}}\mbox{All}$  Bubblers include an SD Card and attachable mounting feet.