

Water Velocity Meter

SonTek FlowTracker®2

The new FlowTracker®2 (FT2) handheld Acoustic Doppler Velocimeter (ADV®) has all the technology you have grown to know and trust with the original FlowTracker, but now comes with functional, modernized features (Bluetooth, GPS and large color screen, to name only a few) based on the evaluation and feedback from hydrologists, researchers and scientists who have made the FlowTracker their instrument of choice.

FEATURES

- Large color screen
- Set up and save templates — no need to re-enter data every time you visit a site
- Embedded GPS for georeferencing with automatic or manual fixes
- Visual prompts guide you through the measurement process
- Bluetooth or direct USB interface with PC
- Battery life icon on the screen at all times
- Tactile, rugged keypad and IP-67 waterproof rating
- 2-year warranty and 24/7 tech support
- Multi-language

FLOWTRACKER®2 HANDHELD SOFTWARE

There is a lot to get excited about when using the new FT2 handheld. Intuitive workflow and rich graphics make for a modernized, interactive experience. Now you can:

- Automatically conform to proper methods based on depth
- View a running discharge summary
- An on-screen tilt sensor
- Know immediately if you have signal or beam blockage problems
- Get real-time plots of velocity and other parameters
- Enter comments and gage heights with any station
- Edit data

FLOWTRACKER®2 PC SOFTWARE

Open-source JSON file format is ready to be read into any organization's database, and is supported with direct import to Hydstra and WISKI.



APPLICATIONS

- Natural Streams/Rivers
- Irrigation Canals
- Mining Channels
- Water Treatment
- Weirs/Flumes
- Storm Water
- Open Channels
- Lakes/Reservoirs

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

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SPECIFICATIONS

Probe

Velocity Range	±0.001 to 4.0 m/s (0.003 to 13 ft./s)
Velocity Resolution	0.0001 m/s (0.0003 ft./s)
Velocity Accuracy	±1% of measured velocity, 0.25 cm/s
Acoustic Frequency	10.0 MHz
Sampling Volume Location	10 cm (3.93 in.) from the center transducer
Minimum Depth	0.02 m (0.79 in.)
Temperature Sensor	Resolution: 0.01°C, Accuracy: 0.1°C
Tilt Sensor	Accuracy: 1.0°
Communication Protocol	RS-232
Operating/Storage Temperature	-20°C to 50°C (-4°F to 122°F)
Physical Specifications	
<i>Probe Head Dimensions</i>	(L)13.3 cm (5.22 in.); (W) 6.1 cm (2.39 in.); (H) 2.3 cm (0.90 in.)
<i>Standard Cable Length</i>	1.5 m (4.92 ft.)
<i>Weight in Air</i>	0.90 kg (1.98 lbs.)
<i>Weight in Water</i>	0.30 kg (0.66 lbs.)

Handheld

Power		
<i>Input Battery Voltage</i>	8 - 12 VDC	
<i>Power Supply</i>	8 X AA Batteries (Alkaline)	
<i>Battery Life</i>	Alkaline: 15 hours continuous use, typical settings*	
<i>Power Consumption</i>	1 W (Average)	
GPS		
<i>H. Position Accuracy</i>	Up to 2.5 m (8.2 ft.) nominal	
<i>Frequency</i>	L1 (1.575 MHz), SBAS compensation (WAAS, EGNOS, MSAS, GAGAN)	
LCD Resolution	320 X 240 TFT Transmissive	
Bluetooth	Class 2, Range = 10 m (33 ft.) nominal	
USB	Micro USB, IP-67	
Probe Interface		
<i>Battery Power to Probe</i>	8 - 12 VDC	
<i>Data Transfer</i>	RS-232	
<i>Data Storage</i>	16 GB. Up to 10k discharge measurements. Up to 10 million velocity samples.	
Operating Temperature	-20° to 60°C (-4°F to 140°F)	
Storage Temperature	-30° to 70°C (-22°F to 158°F)	
Physical Specifications		
<i>Waterproof Rating</i>	IP-67 (1m submersible)	
<i>Handheld Dimensions</i>	(L)10.4 cm (4.1 in.); (W) 6.4 cm (2.5 in.); (H) 23.7cm (9.3 in.)	
<i>Weight in Air</i>	0.75 kg (1.65 lbs.)	
<i>Weight in Water</i>	-0.25 kg (-0.55 lbs.)	

*Defined as power on with screen on at 100% brightness, ADV sensor pinging 50% of the time, GPS off, and no sleep periods. Actual battery life will vary depending on FT2 settings, manner of use and brand of battery.

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