

DataStik™

Wireless Level & Temperature

Proven Magnetostrictive Level Sensing Performance: Now Wireless and Battery-Powered

Innovative Sensor Solutions and *Ametek Sensor Technology* have teamed up to develop **DataStik™**: a truly wireless and continuous tank gauging system. It is ideal for storage tank inventory control in both aboveground and underground storage tanks.

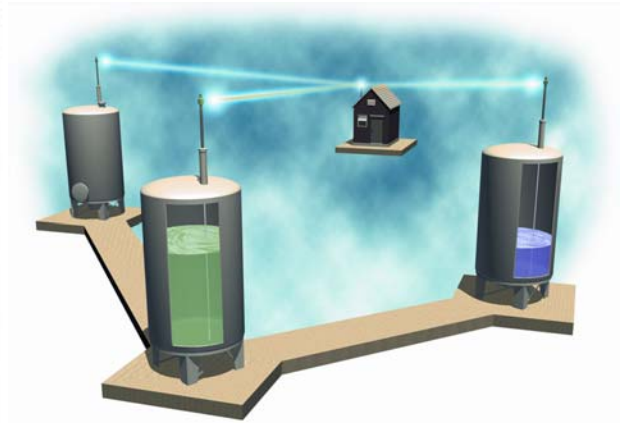
DataStik™ employs the patented battery-powered, intrinsically safe, 900MHz **DataCheck®** spread spectrum sensor power and control platform. Integrated with the *Ametek Process Technologies* Digital **Stik™**, the system provides continuous level and temperature measurement for inventory control and supply chain management. Since the system does not require power at the tank, it is ideal for monitoring tanks that have not had any electronic instruments installed or are located in remote areas where it would be costly to bring power and signal wiring to the site.

DataStik™ is available in 2 formats to suit virtually any level monitoring application. The 316 stainless steel version is totally welded construction, and has a cathodic protection boot for use in a wide variety of applications. The flexible version employs a PVDF housing and provides very cost effective tank inventory monitoring in deep tanks (up to 50 ft.).

This breakthrough in package design eliminates the bulky electronics enclosure at the top of the sensor and offers greater options for insertion and mounting in tanks and vessels. In addition, continuous self-diagnostic system monitoring is part of the level measurement.

All **DataStik™** models provide 5 high resolution temperature measurements and the ability to add a lower, high density float to measure the level of the interface between the product and any water that may be present.

The **DataCheck™ Receiver** and **DataCheck™ System Portal** provide data to all popular terminal management, tank gauging, and HMI applications using the industry standard MODBUS-RTU protocol. The **OMNTEC OEL8000II-ISS** provides full volumetric and alarm logic capabilities as well as relay and annunciator options.



True “Stand-Alone” Tank Gauging
No power or wiring required!
Tanks up to 50 ft!



DataStik™ Installed on Storage Tank



Installing Flexible DataStik™
(for tanks up to 50 ft.)

For More Information, Please Contact:
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Reference Specifications

Power requirement	2 - 3.6 V lithium ion batteries
Sensor Length	Stainless steel: up to 24' Flexible PVDF: up to 50'
Enclosure Rating	Sensor: IP-68 Transmitter: IP-67
Level Resolution	0.25 mm (0.01")
Accuracy	±1.0 mm (±0.04")
Temp. Resolution	0.1°C
Temperature Accuracy	-10°C to +85°C ±0.5°C -40°C to -11°C ±2.0°C
Temp. Sensing Range	-40°F – 150°F
Operating Temperature	-40°F – 180°F
Approval	CSA US/C intrinsically safe approval, Exia
Spread Spectrum Scheme	Fully Supervised Digitally Encoded Frequency Hopping
Operating Frequency Range	Multiple independent channels, 902- 928 MHz ISM band
Protected Under	U.S. Patent No. 6,369,715
NOTE: Specifications may change without notice	

