vPROBE

Wireless Hand-Held Probing

API PRODUCT SPECIFICATIONS

Gain agility, flexibility **& portability**

vProbe's wireless technology syncs perfectly with API's Omnitrac 2 Laser tracker. vProbe makes it easier to operate in your workspace without having to reposition your tracker or fixtures. Gain flexibility and speed and **take portability to the next level!**

Features & Benefits

True Portability

The vProbe / Omnitrac 2 integrated system uses wireless technology allowing true portability of the device. The integrated battery is capable of operating for up to 6 hours on a single charge. Set-up, tear down, or relocate the tracking system on the fly.

Long-Range Measurement

The vProbe boasts a large operating volume. With integrated wireless technology vProbe operates over distances that other systems cannot.

Dynamic Scanning

vProbe's dynamic scanning capability provides instant coordinate feedback, allowing the operator to take measurements faster than competing systems.

Compact Design

The vProbe has a lightweight design and fits with the Omnitrac 2 in a single carrying case, making transportation easier than ever.

Ergonomic

With vProbe's design and easy-hold grip, it can be operated for longer periods of time with greater agility.

Flexibility

Dual stylus locations, easy indicator lights, and a stylus toggle switch makes measurements with the vProbe quick and convenient. Easily measure inside, behind, or the side of an object.

AUTOMATED PRECISION

EN0815

15000 Johns Hopkins Dr. | Rockville, MD 20850 | 1-800-537-2720 | info@apisensor.com | www.apisensor.com

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Parameter	Specification
Radial Tracking Distance	80 m
Wireless Frequency	2.4 GHz
Lithium Ion Battery	6 working hours
Weight	0.68kg

Probe Accuracy: 150mm Effective Stand-off (w/ 100mm Stylus)

	7m	15m	Above 15m
3D Points ($3D^U$)	75µm	115µm	40µm + 5µm/m
Spatial Length (SL^U)	±55µm	±85µm	±(10µm + 5µm/m)
Sphere Radius (R^U)	±30µm	±40µm	±(10µm + 2µm/m)

Probe Accuracy: 100mm Effective Stand-off (w/ 50mm Stylus)

	7m	15m	Above 15m
3D Points ($3D^U$)	55µm	100µm	30µm + 5µm/m
Spatial Length (SL^U)	±40µm	±85µm	±(10µm + 5µm/m)
Sphere Radius (R^U)	±20µm	±40µm	±(10µm + 2µm/m)

Definitions

3D Points Uncertainty ($3D^U$)

$3D^U$ is the deviation between a point measured with the vProbe™ and the nominal position of that point.

Spatial Length Uncertainty (SL^U)

SL^U is the deviation between a length measured with the vProbe™ and its nominal value.

Sphere Radius Uncertainty (R^U)

R^U is the deviation between a measured sphere's radius and its nominal value where the reference sphere has a radius between 10 mm and 50 mm.

Measurement Unit Specification

$3D^U$, SL^U, and R^U are further specified as a function of the distance between the laser tracker and the measured surface.

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