

Simply a question of better measurement



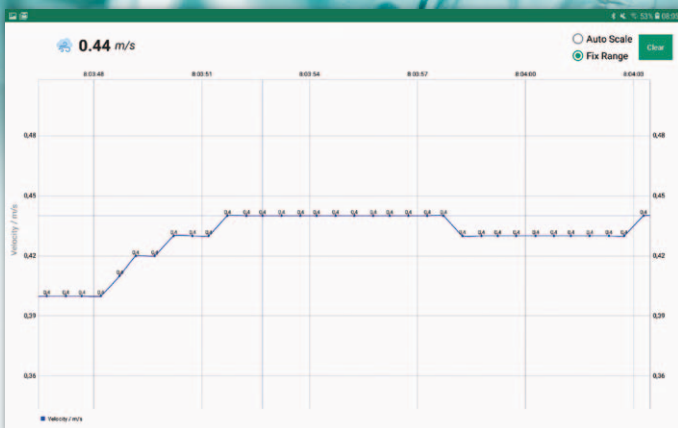
SCHMIDT® *Bluetooth*® Verification Probe SS 20.450

Verify flow sensors on site



- Easy, fast and secure verification of flow sensors – mobile on site
- Easy clamp-on installation
- Plug and play
- No additional power supply necessary
- Radio module featuring *Bluetooth*® wireless technology for remote transmission of standard flow velocity w_N
- Display and real-time recording of measured values via free-of-charge **SCHMIDT® Sensor App** on a mobile Android device – wireless, any time and everywhere ¹⁾

SCHMIDT® smart solutions featuring *Bluetooth*® wireless technology



The **Verification Probe** is perfect for use for a fast and secure on-site verification of installed cleanroom flow sensors or for use as a temporary sensor for setting-up processes.

¹⁾ Depending on radio range, typically 10 m on sight.

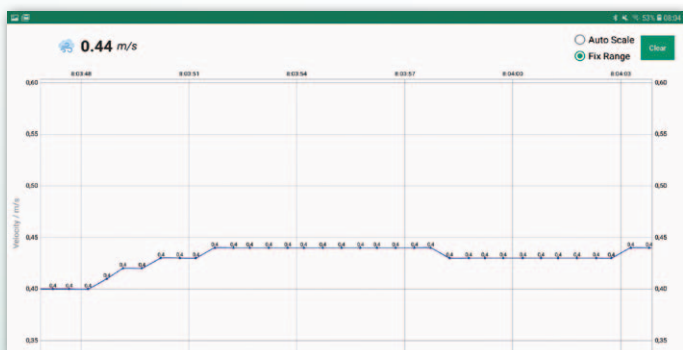


Especially in Cleanrooms or in clean processes there is an occasional need to verify installed flow sensors. Now this can be easily achieved with the **SCHMIDT® Bluetooth® Verification Probe SS 20.450**.

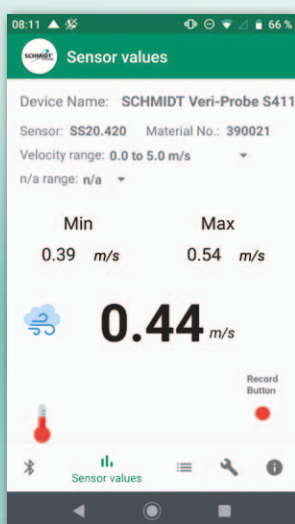
The **SCHMIDT® Flow Sensor** remains in place and the verification probe is easily attached to the flow sensor using the metal clip supplied. The **Verification Probe** is battery powered and can therefore be operated completely wireless for up to 8 hours.

This probe enables the operator to easily verify a flow sensor without removing it from the clean area and then having to clean it before re-installation. The plant operator can now select the sensor to be validated with the **SCHMIDT® Sensor App** installed on a mobile Android device and display real-time measurements graphically on a smartphone or tablet and if needed can record the values (datalogger function). The recorded data can be saved and processed afterwards.

Another application for the **SCHMIDT® Bluetooth® Verification Probe SS 20.450** is the setup of processes.



Indication of actual measuring values as a graph with auto scaling or fix range to show a history of values.

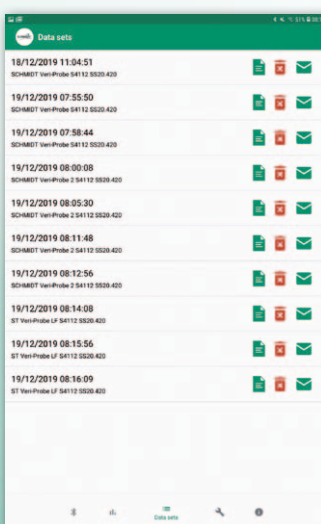


- Actual sensor values like
- Sensor name / serial number
 - Sensor model / type
 - Sensor article number
 - Sensor measuring range
 - Min / max values
 - Actual value displayed at the **SCHMIDT® Sensor App**

Real-time recording by pressing the red record button

Want to learn more about **SCHMIDT® smart solutions**? Further information are available on our website www.schmidt-sensors.com or at Mr Oliver Joos, phone +49 77 24 / 899-198 or by e-mail at o.joos@schmidttechnology.de

Technical Data	
Additional necessary device	Mobile device, e.g. smartphone or tablet System requirements: - Android® version 7.0 or higher - Bluetooth® version LE (4.0) or higher To use the full functionality of the SCHMIDT® Sensor App for Android, an active internet connection is required.
Radio range	According to usual Bluetooth® standard, e.g. 10 m on sight
Display and recording	Standard flow velocity w_N via free-of-charge SCHMIDT® Sensor App
Measuring parameters w_N	Standard velocity w_N of air, based on standard conditions of $T_N = 20\text{ °C}$ and $p_N = 1,013.25\text{ hPa}$
Medium to be measured	Clean air
Measuring range w_N	0 ... 1 / 5 / 10 / 20 m/s
Lower detection limit w_N	0.05 m/s
Measuring accuracy MR 1 m/s	± (1 % of meas. value + 0.025 m/s)
Measuring accuracy MR 5 / 10 / 20 m/s	± (2 % of meas. value + 0.8 % of fmr)
Response time $t_{90} w_N$	5 s
Material sensor head	Aluminium
Material sensor tube	Stainless steel
Material sensor element	Glass, Epoxy
Operating temperature	0 ... +60 °C
Storage temperature	-20 ... +85 °C
Supply voltage	With integrated batteries (3 x LR44)
Dimensions	Sensor: L = 150 mm; Ø 9 mm Radio module: L = 90 mm; Ø 18 mm
Weight	80 g including batteries



Recorded data can be stored, shared by e-mail and processed later with other additional software.

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