

BlueLine®

BlueAir ST®

Air velocity and air flow meter





- High accuracy for exact analysis
- Choice of different probes
- Expandable for many other measured variables with the CAPBs® units

Application

BlueAir ST® is an accurate and modular instrument for measurements of air velocity, air flow, temperature and humidity. The device was developed to check and adjust ventilation systems and serves to measure flow speeds of gaseous and liquid media. It features high precision and robustness and is especially suitable for mobile and laboratory applications. Unique is the large temperature range of the vane probes from -20 to 140 °C.

Functionality

The compact device is equipped with a simple menu navigation via a large TFT color display. Three values can be displayed simultaneously. A lithium-ion battery with a durability up to 40 hours guarantees a long operation time.



At the top of BlueAir ST® are two plugs for following probes:

- MiniAir Junior micro vane probe (diameter 11 mm)
- MiniAir Junior mini vane probe (diameter 22 mm)
- MiniAir Junior macro vane probe (diameter 85 mm)
- Temperature and humidity probe

For enough freedom of movement, the vane probes have a cable length of 1.5 meters. The temperature and humidity probe can be mounted directly to the housing or with the special 1.8 meter long extension cable. The device detects all probes automatically.

The BlueAir ST® provides minimum, maximum and average values. By entering the dimensions of the ventilation duct the amount of air can be calculated. The device can be optionally equipped with a microSD card to store the measured values. A data logger function for automatic storage of measured values with adjustable frequency from 0 to 999 seconds is another possibility of the BlueAir ST®. The device is also equipped with Bluetooth® communication to transfer the measurement values to the free EuroSoft® connect App (iOS, Android and Windows).





General specifications

Dimensions (H x W x D)	143 x 66 x 37 mm, with protective sleeve
Weight	Approx. 220 g
Display type	2.8" TFT color screen (240 x 320 pixels)
Operating temperature	0 to 40 °C
Storage temperature	-20 to 50 °C
Power supply	3.6 V / 1.8 Ah Li-Ion battery
Battery life	Up to 20 hours in normalmodus
	Up to 30 hours in Auto-modus
	Up to 40 hours in Eco-modus
Ingress protection rating	IP40
Guarantee	Standard 2 years

Measurement units

Air speed	m/s or km/h
Airflow	m³/h, l/s or m³/s
Relative Humidity	% rh
Temperature	°C or °F

Vane probes

Definition	MiniAir Junior micro	MiniAir Junior mini	MiniAir Junior macro	Temperature and humidity probe
				
Air velocity (nom.)	0.6 to 20 m/s	0.4 to 20 m/s	0.3 to 20 m/s	not available
Air velocity (max.)	0.7 to 40 m/s	0.5 to 40 m/s	0.3 to 40 m/s	not available
Humidity		not applicable		0 to 100% rh
Temperature		not applicable		-40 to 80 °C
Accuracy	± 2.0 % fs	± 1.0 % fs	± 1.0 % fs	humidity: ± 2.3% rh at 10 to 90 % rh
	± 5.0 % RDG	± 3.0 % RDG	± 3.0 % RDG	temperature: ± 0.8 °C at -20 to 80 °C
Resolution	0.01 m/s	0.01 m/s	0.01 m/s	humidity: 0.1 % rh temperature: 0.1 °C
Temperature medium	-20 to 140 °C	-20 to 140 °C	-20 to 140 °C	-40 to 80 °C
Sensor size	Ø 11 mm x 15 mm	Ø 22 mm x 28 mm	Ø 85 mm x 80 mm	Ø 15 mm x 48 mm
Probe length	165 mm	175 mm	235 mm	30 mm
Cable length	1.5 m	1.5 m	1.5 m	1.8 m (option)

Sets

	Part no.
BlueAir ST® MiniAir Junior micro vane probe starter set	P00023
BlueAir ST® MiniAir Junior mini vane probe starter set	P00022
BlueAir ST® MiniAir Junior macro vane probe starter set	P00024

Optional accessoires

	Part no.
MiniAir Junior micro vane probe	524318
MiniAir Junior mini vane probe	524319
MiniAir Junior macro vane probe	524320
temperature and humidity probe	511179
temperature and humidity probe extension cable	523511
Thermal printer EUROprinter IR	522394
Telescopic extension rod VLS 1000	523628
Bluetooth® USB dongle for Windows	500857



i Each set includes instrument, vane probe, USB charger / AC adapter, microSD card with USB card reader, instruction manual and case.

SYSTRONIK

SYSTRONIK GmbH is specialized in development and production high quality measuring instruments for flue gas analysis, testing and maintaining HVAC installations, climate and environmental technology. All SYSTRONIK products satisfy the highest standards for quality, reliability and safety.

Our facilities are certified to full operational requirements of the ISO 9001 quality standard. We are constantly striving to improve our quality assurance position with input from periodic audits by independent experts required for continued certification.



SYSTRONIK

Messtechnologie

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