

# BlueAir ST

Air velocity and air flow meter



Menu in different languages

Choice of different probes

Automatic detection of the probe

Large temperature range from -20 to +140 °C



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### Application .....

BlueAir ST is an accurate and modular instrument for measurements of air velocity, air flow, temperature and humidity. With this tool you can check and adjust ventilation systems. The high accuracy and robust construction of the BlueAir ST is suitable for laboratory and field use. Unique is the large measurement range from minus 20 to plus 140 degrees Celsius (253 – 413 Kelvin)

### 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 of up to 40 hours guarantee a long operation time. At the top of BlueAir ST are two connectors for following probes:

BlueAir ST MiniAir20 micro vane probe (diameter 11 mm)

BlueAir ST MiniAir20 mini vane probe (diameter 22 mm)

BlueAir ST MiniAir20 macro vane probe (diameter 85 mm)

BlueAir ST temperature and humidity sensor

The vane probe has a cable length of 1.5 meter that gives the user freedom of movement.

The temperature and humidity sensor can be mounted directly to the housing or with the special 1.8 meter long extension cable. The device detect all probes automatically.

sensor connections



The BlueAir ST provides minimum, maximum and average values. The amount of air can be calculated by entering the dimensions of the ventilation duct. 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 equipped with Bluetooth® Smart communication.

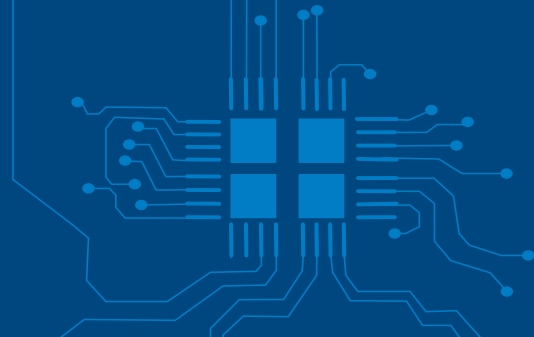
### Specifications .....





- Measurement of air velocity, air flow, temperature and humidity
- Menu available in several languages
- 2.8" TFT color screen
- Various probes selectable
- Automatic detection of the probe
- Simultaneous display of four measurements
- Data storage on a MicroSD card



- Connector for charger / power supply
- MicroSD card slot
- infrared output
- for Euro Printer

# probe selection



vane probes				
Definition	BlueAir ST MiniAir20 micro	BlueAir ST MiniAir20 mini	BlueAir ST MiniAir20 macro	BlueAir ST temperature and humidity probe
				
Air velocity (nom.)	0.6 to 20 m/s	0.4 to 20 m/s	0.2 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
Resolution	0.01 m/s	0.01 m/s	0.01 m/s	humidity: 0.1 % rh temperature: 0.1 °C
Accuracy	± 1.0% fs	± 1.0% fs	± 1.5% fs	humidity: ± 1.8% rh bei 10 bis 90% rh
	± 3.0% RDG	± 1.5% RDG	± 1.5% RDG	temperature: ± 0.3 °C bei 0 bis +40 °C
Reproducibility	not applicable			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	not available
Cable length	1.5 m	1.5 m	1.5 m	not available

General specifications	
Display	2.8" TFT-Colorscreen resolution 240 x 320 pixels
Power supply	3.6 V / 1.8 Ah Li-Ion battery
Battery Indicator	Yes
Useful life Li-ion battery	Up to 20 hours in normalmodus
	Up to 30 hours in Auto-modus
	Up to 40 hours in Eco-modus
Operating temperature	0 to +40 °C
Storage temperature	- 20 to +50 °C
Dimensions (L x W x H)	143 x 66 x 37 mm, incl. holster
Weight	Ca. 220 g
Ingress Protection Rating	IP40
Garantee	Standard 2 years

The rotation of the wing affects proportionally the air speed and is virtually unaffected by pressure, temperature, humidity and air density.

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

**Data processing Apps** .....  
Easy display and processing of measured values by the EuroSoft mobile App for Android and iOS.



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Order numbers	
Product	Order number
BlueAir ST	M080002016
Vane probe	Order number
BlueAir ST MiniAir20 micro vane probe	523507
BlueAir ST MiniAir20 mini vane probe	523508
BlueAir ST MiniAir20 macro vane probe	523509
BlueAir ST Temperature and humidity probe	511011
BlueAir ST Temperature and humidity probe extension cable	523511

#### Accessories .....

USB charger / AC adapter and instruction manual.

#### Optional accessories .....

vane probe MiniAir20 micro / mini / macro, temperature and humidity probe, extension cable for temperature and humidity sensor, carrying case and Euro Printer.



Subject to change without notice Systronik v14004

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