MiniAir®20 Air-flow Meter
with MC20 Display and Control Unit

❚ For all MiniAir®20 flow sensors
❚ Humidity and temperature sensors can be connected simultaneously
❚ Large TFT display ❚ All three channels can be displayed simultaneously
❚ Easy operation by key pad ❚ Memory and logger function

Hand-held Measuring Instrument for Air-flow, Humidity and Temperature

MiniAir®20
with MiniController MC20

MiniController MC20 with MiniAir20 Macro (right) and HygroAir20 (left)

MiniAir20 Micro

MiniAir20 Mini

MiniAir20Mini, steel

MiniAir20 Macro

HygroAir20 humidity and temperature sensor pluggable to housing or measuring sensor

The MiniAir®20 is a:

❚ Vane anemometer
❚ Hygrometer
❚ Thermometer

and serves to measure flow speeds of gaseous and liquid media, relative humidity and temperature. It features high precision and robustness and is especially suitable for mobile and laboratory applications.

❚ All MiniAir20 vane measuring sensors can be connected
❚ Automatic sensor detection
❚ Very simple operation, handy keyboard
❚ Easy to repair on site thanks to the snap-on head principle
❚ Momentary value measurement
❚ All three channels can be displayed simultaneously
❚ Accuracy: ±1.0 % fs ±1.5 % rdg (for MiniAir20 Mini)
❚ Interval measurement
❚ Average, minimum and maximum values can be displayed simultaneously
❚ Volume measurement (flow measurement)
❚ Storage on microSD card
❚ IR interface for on-site report printer
❚ Battery operation, mains operation possible

Equipment set:

❚ **MiniController MC20 evaluation unit**
❚ **Sensors for**
   Flow: **Micro (Ø 11 x 15 mm)**
               Mini   (Ø 22 x 28 mm)
               Macro (Ø 85 x 80 mm)

❚ **Humidity and temperature in two variants:**
   ❚ **Measuring sensor with handle and cable**
   ❚ **Pluggable to housing**

❚ **Carrying case**
❚ **Telescopic rod**
❚ **Power supply unit**

SWISS CALIBRATION

S
C
S
Schweizerischer Kalibrierdienst
Service suisse d'étalonnage
Servizio Svizzero di taratura
Swiss Calibration Service

CE

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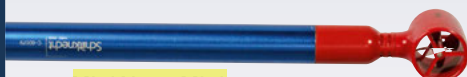http://www.schiltknecht.com
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MiniController MC20

Measuring sensors	Plastic sensor: for non-aggressive gases Steel sensor: for aggressive gases Humidity and temperature sensor
Measuring units	Flow: m/s, km/h Volume flow: m³/h, l/s, m³/s Humidity: % r.h. Temperature: °C, °F
Display	TFT dot matrix display
Measuring rate	2 measurements / s
Feed	Lithium-Ion battery
Operating time per battery charge	approx. 15 hours
Housing dimensions (HxWxD)	144 x 68 x 38 mm
Housing protection class	IP 40
Weight	approx. 218 g
Operating temperature	0 to 50°C
Humidity	0 to 90 % r.h., non condensing

MiniAir®20
with MiniController MC20

The rotation of frequency is almost proportional to the flow velocity and largely independent of pressure, temperature, density and humidity.

The MiniController MC20 converts the rotational frequency into a standard signal and shows the measured value in the display.

All measured values can also be saved simultaneously and printed out on site.

Plastic air sensor for non aggressive gases

	MiniAir20 Micro	**MiniAir20 Mini**	**MiniAir20 Macro**
Flow measuring range	0.6 – 20 m/s 0.7 – 40 m/s	0.4 – 20 m/s 0.5 – 40 m/s	0.2 – 20 m/s 0.3 – 40 m/s
Measuring accuracy of the air-flow	± 1.0 % fs ± 3.0 % rdg	± 1.0 % fs ± 1.5 % rdg	± 1.0 % fs ± 1.5 % rdg
Media temperature	-30 to +140°C	-30 to +140°C	-30 to +140°C
Head size	ø 11 x 15 mm	ø 22 x 28 mm	ø 85 x 80 mm
Sensor length	165 mm	175 mm	235 mm
Cable length	1.8 m	1.8 m	1,8 m

Stainless steel air sensor for aggressive gases

	MiniAir20 Mini, steel, up to 140°C	**MiniAir20 Mini, steel, up to 250°C**	**MiniAir20 Micro, steel, up to 250°C**
Flow measuring range	0.7 – 20 m/s 0.8 – 40 m/s	0.7 – 20 m/s 0.8 – 40 m/s	1.0 – 20 m/s 1.3 – 40 m/s
Measuring accuracy of the air-flow	± 1.0 % fs ± 2.0 % rdg	± 1.0 % fs ± 2.0 % rdg	± 1,5 % fs ± 3.5 % rdg
Media temperature	-30 to +140°C	-30 to +250°C	-30 to +250°C
Head size	ø 22 x 28 mm	ø 22 x 28 mm	ø 11 x 15 mm
Sensor length	182 mm	182 mm	175 mm
Cable length	1.8 m	2.4 m (resistant up to 250°C) 1.5 m from evaluation box	2.4 m (resistant up to 250°C) 1.5 m from evaluation box

HygroAir20 humidity and temperature sensors

Can either be plugged directly into the MiniController MC20 or used with a special handle with extension lead.

Measuring range	0 to 99,9 % r.h.
Accuracy	±1.8 % r.h. at 10 – 90 ww % r.h.
Reproducibility	±0.1 % r.h.
Temperature measuring range	-20 to 70°C
Accuracy	±0.3°C at 0 – 40°C
Reproducibility	±0.1°C
Media temperature	-40 to +123,8°C
Shaft	ø 15 mm
Cable length	1.8 m

Schiltknecht
swiss precision

Snap-on head can only be replaced by one of the same size and measuring range. Subject to technical modifications. 0113MT