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Schiltknecht
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MiniAir[®]20

Multiprobe Anemometer

The universal MiniAir20 measures the velocity of gaseous and liquid media, temperature, relative humidity and revolutions. Accuracy and reliability are of the high standard expected from Schiltknecht Messtechnik AG.

- All MiniAir20 probes can be used
- Automatic probe recognition
- Easy handling, convenient keys
- Mean-, Minimal- and Maximal values
- Free selectable measurement time from 2s to 2h
- Analogue output 0-1 V
- Mini2Logger output
- Snap head principle features on-site serviceability

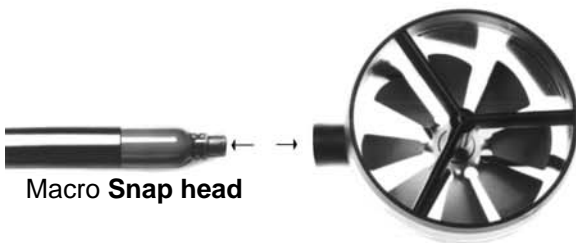
all probes
interchangeable



Micro Snap head



Mini Steel Probe



Macro Snap head



Humidity-/Temperature Probe

Types:

- Indication unit MiniAir20
- Probe Micro (Ø 11x15 mm)
- Probe Mini (Ø 22x28 mm)
- Probe Macro (Ø 85x80 mm)
- Universal temperature probe
- Air temperature probe
- Surface temperature probe
- High temperature probe
- Humidity-/Temperature probe
- Revolutions probe
- Insertion device 4bar
- Insertion device 20bar
- Volume measurement system Micro
- Volume measurement system Mini



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Swiss Calibration Service

SCS 046



The vane anemometer MiniAir20 measures the velocity of gaseous or liquid media as well as temperature, relative humidity and revolutions. In anemometry, the accuracy achieved by a vane anemometer is acknowledged to be unmatched. The vane rotation is closely linear to flow velocity and is unaffected by pressure, temperature, density and humidity.

The probe MiniAir20, like other MiniAir models, features the unique Snap Head on types Micro, Mini and Macro, providing on-site serviceability, thus making it ideal for continual measuring.

MiniAir[®]20

Multiprobe Anemometer

Typical applications are measurements in ventilation, air-conditioning systems, building maintenance, general industrial research and laboratories.

Measuring media	Synthetic probe: non-aggressive gases or liquid media Steel probe: aggressive media
Measuring ranges	Flow: m/s Temperature: °C Humidity: % rh Revolutions: rpm
Indication	LED 4-digit
Measuring rates	2 measurements / sec.
Supply / Battery	Battery (1 x 9 V Leclanché LR22-9 V) or external mains adapter
Current consumption	Approx. 15 mA
Lifetime of battery	Approx. 12 h
Output	Flow/Humidity: 0-1 Volt Temperature: 10 mV/°C 0V = -20°C High-Temperature: 2 mV/°C 0V = 0°C Output for Mini2Logger (interval 0.5 s)
Case dimension	80 x 145 x 39 mm
Case protection type	IP 40 (ABS synthetic)
Weight	ca. 230 gram
Operating temperature	0 to 50°C
Storage temperature	-30 to 80°C
Air humidity	0 to 90% rh, non-condensing
Working standard	Laser controlled wind tunnel (cert. in accord. with SN EN 45001)

Air Probe	MiniAir20 Micro	MiniAir20 Mini	MiniAir20 Macro
Measuring range Flow	0.5 - 20 m/s 0.7 - 40 m/s	0.3 - 20 m/s 0.5 - 40 m/s	0.15 - 20 m/s 0.3 - 40 m/s
Flow accuracy	1.0% fs 3.0% rdg	0.5% fs 1.5% rdg	0.5% fs 1.5% rdg
Measuring range Temp.	-20 to +140°C	-20 to +140°C	-20 to +140°C
Accuracy	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C
Operating temperature	-30 to +140°C	-30 to +140°C	-30 to +140°C
Head dimension	Ø 11 x 15 mm	Ø 22 x 28 mm	Ø 85 x 80 mm
Access opening	16 mm	35 mm	
Length of probe	165 mm	175 mm	235 mm
Length of cable	1.5 m	1.5 m	1.5 m
Storage temperature	-65 to +150°C	-65 to +150°C	-65 to +150°C

Air Probe of stainless steel	MiniAir20 Mini up to 140°C Steel	MiniAir20 Mini up to 250°C Steel	
Measuring range Flow	0.3 - 20 m/s 0.5 - 40 m/s	0.3 - 20 m/s 0.5 - 40 m/s	
Flow accuracy	0.5% fs 1.5% rdg	0.5% fs 1.5% rdg	
Measuring range Temp. Accuracy	-20 to +140°C +/- 0.5°C	---- ----	
Operating temperature	-30 to +140°C	-30 to +250°C Evaluation box up to 65°C	
Head dimension	Ø 22 x 28 mm	Ø 22 x 28 mm	
Access opening	35 mm	35 mm	
Length of probe	182 mm	182 mm	
Length of cable	1.5 m	2.0 m (250°C) 1.5 m from Box	
Storage temperature	-65 to +150°C	-65 to +250°C (Box and Cable up to 65°C)	

Water Probe	MiniWater20 Micro	MiniWater20 Mini	
Measuring range Flow	0.04 - 5 m/s 0.05 - 10 m/s	0.02 - 5 m/s 0.03 - 10 m/s	
Flow accuracy	2.0% fs 3.0% rdg	2.0% fs 3.0% rdg	
Measuring range Temp. Accuracy	0 to +70°C +/- 0.5°C	0 to +70°C +/- 0.5°C	
Operating temperature	-30 to +70°C	-30 to +70°C	
Head dimension	Ø 11 x 15 mm	Ø 22 x 28 mm	
Access opening	16 mm	35 mm	
Length of probe	165 mm	175 mm	
Length of cable	5 m	5 m	
Storage temperature	-65 to +150°C	-65 to +150°C	

Temperature Probes	Universal temperature probe	Air temperature probe	Surface temperature probe
Measuring range	-20 to +140°C	-20 to +140°C	-20 to +140°C
Resolution	0.1°C	0.1°C	0.1°C
Accuracy	at 0 – 70°C 0.2°C outside 0.5°C	at 0 - 70°C 0.2°C outside 0.5°C	at 0 - 70°C 0.2°C outside 0.5°C
Operating temperature	-30 to +140°C	-30 to +140°C	-30 to +140°C
Head dimension	Ø 3 x 100 mm	Ø 3 x 100 mm	Ø 3 x 100 mm
Shaft	Ø 10 x 80 mm	Ø 10 x 80 mm	Ø 10 x 80 mm
Access opening	Ø 4 mm	Ø 5 mm	
Length of probe	180 mm	180 mm	180 mm
Length of cable	1.5 m	1.5 m	1.5 m
Storage temperature	-65 to +150°C	-65 to +150°C	-65 to +150°C

Temperature, Humidity and Revolutions Probes	Universal high temperature probe	Humidity and temperature probe	Revolutions probe
Measuring range	-20 to +600°C	0 to 99.9% RH	0 to 9'999 rpm
Resolution	1°C		
Accuracy	at 0-70°C 0.5°C outside 1.0°C		
Calibration accuracy		+/-1.5%rh at 10 - 95%rh	
Reproducibility		0.5%rh	
Temperature range		-10 to +60°C	
Calibration accuracy		+/-0.35°C at -10 - +50°C	
Reproducibility		0.1°C	
Operating temperature	-30 to +600°C	-20 to +60°C	0 to +60°C
Head dimension	Ø 3 x 230 mm	Ø 22 x 32 mm	Ø 13x40/45 mm
Shaft dimension	Ø ca. 22 mm	Ø 25 mm	Ø 15 x 120 mm
Access opening	Ø 4 mm	Ø 26 mm	Ø 14 mm
Length of probe	350 mm	195 mm	180 mm
Length of cable	1.8 m	1.8 m	1.5 m
Storage temperature	-65 to +150°C	-65 to +150°C	-65 to +150°C

Volume measuring system for water	Volume measuring system 4bar for MiniWater20	Volume measuring system 20bar for MiniWater20	
Measuring range	0.04 to 5 m/s	0.04 to 5 m/s	
Accuracy	0.5% fs 1.5% rdg	0.5% fs 1.5% rdg	
Operating temperature	-10 to +95°C	-10 to +200°C	
Length	288 mm	560 mm	
Insertion length	200 mm	360 mm	
Pressure-resistant up to	4 bar	20 bar	
Tube size	G ¾" - max. 200 mm	G ¾" - max. 200 mm	
Clear insertion width for probe	min. Ø 15.75 mm	min. Ø 15.75 mm	
Connection thread	G ¾" for ball valve	G ¾" for ball valve	
Length of cable	5.0 m	2.0 m (200°C) 1.5 m from Box (65°C)	
Storage temperature	-65 to +150°C	-65°C to +200°C (Box and Cable up to 65°C)	

Volume measuring system for air	Volume measuring system Micro (PSU)	Volume measuring system Mini (Steel)	
Measuring Range	0.4 to 40 l/min. 1.0 to 100 l/min.	2.5 to 250 l/min. 5.0 to 500 l/min.	
Accuracy	1.0% fs 3.0% rdg	0.5% fs 1.5% rdg	
Operating temperature	-30 to +140°C	-30 to +140°C	
Length	150 mm	300 mm	
Diameter	out Ø 14 mm in Ø 9 mm	out Ø 22 mm in Ø 18 mm	
Hose connector or Threaded connector	Ø hose 14 mm G ¼"	Ø hose 18 mm G ¾"	
Length of cable	1.5 m	1.5 m	
Storage temperature	-65 to +150°C	-65 to +150°C	

Snap head only replaceable with same range and diameter

Specification subject to change without notice