

METEO-DIGIT

Digital hand-held measuring instrument



The compact meteor...

with many extras is an ideal handheld measuring device. The advantages of intelligent digital technology are combined with precision mechanics and electronic accurateness. Automatic sensor recognition and zero adjustment, mean value generation between 0 and 60 seconds, as well as low starting values of 0.4 m/s (compensated) describe this universal and flexible instrument.

- economical compact solution
 - 6 sensors and 4 parameters: flow velocity, wind velocity, rel. humidity, and temperature
 - fail-safe, easy handling
 - high measurement accuracy
- navigation • air conditioning and ventilation technology • scientific laboratories

Professional Line	(9163)	Meteo-Digit	Id-No. 00.09163.030 000	
Measuring elements:	air flow	wind speed	humidity	temperature
Measuring ranges:	measuring generator or Reed contact	measuring generator	capacitive	Pt100
Accuracy:	0.2...40 m/s – depending on sensors	1.1...90 m/s	0...100% r. h.	-40...+85°C
Output (analog):	± 1.5% of meas. value	± 1.5% of meas. value	< ± 1.5% r. h.	< ± 0.3°C
Display/ Resolution:	0...1 V _{DC} = 0...100 m/s	0...1 V _{DC} = 0...100 m/s	0...1 V _{DC} = 0...100% r. h.	0.5...2 V _{DC} = 50...200°C
Range of application:	3 1/2-digit, large LCD · H 13 mm · lighted · low-battery indicator · 1 digit			
Supply voltage:	basic unit 0...+60°C • sensors partly -20...+80°C/ +150°C			
Dimensions/ Weight:	9 V _{DC} dry-cell battery · or optional 9 V-accumulator			
Accessories:	90 x 152 x 21 mm · 0.25 kg + sensor and accessories			
50.09163.002 000	Sensors see page 75.			
50.09163.004 000	(9163 K2) Carrying case for basic unit (9163) and sensors (8163) + (14164) or (14423) or for (9163) and (14423) + (14433)+ (14143) · 400 x 90 x 320 mm · 1.5 kg			
68.02060.090 000	(9163 K4) Carrying case for basic unit (9163) and all 6 sensors			
32.09163.012 000	620 x 140 x 440 mm · 3.8 kg			
	(AKK 6009) Accumulator 9V for (9163)			
	(9163 U12) Charger for 9V-accumulator of (9163)			



(9163) Meteo-Digit Sensors and Accessories

00.14433.120 000 (14433)

Measuring element:
Measuring range:
Accuracy:
Starting value:
Range of application:
Dimensions:
Weight:

Vane Generator Anemometer

measuring generator
0.4...20 m/s velocity of airflow
 $\pm 1.5\%$ of measuring value • ± 0.2 m/s
0.4 m/s (compensated)
-10...+80°C
protection ring outside \varnothing 109 mm · D 60 mm · 0.8...2 m helix cable
0.4 kg



00.14143.120 000 (14143)

Measuring element:
Measuring range:
Accuracy:
Starting value:
Range of application:
Dimensions:
Weight:

Vane Reed Contact Anemometer

Reed contact
0.2...20 m/s velocity of airflow
 $\pm 1.5\%$ of measuring value • ± 0.3 m/s
0.2 m/s (compensated)
-30...+150°C
protection ring outside \varnothing 109 mm · D 60 mm · 3 m cable
0.4 kg

00.14164.150 000 (14164)

Measuring element:
Measuring range:
Accuracy:
Starting value:
Range of application:
Dimensions:
Weight:

Short Miniature Vane Anemometer

inductive sensor
0.7...40 m/s velocity of airflow
 $\pm 1.5\%$ of measuring value • ± 0.2 m/s
0.7 m/s (compensated)
-20...+65°C
immersion depth 160 mm from \varnothing 20 mm · 0.8...2 m helix cable
0.20 kg



00.14163.150 000 (14163)

Dimensions:
Weight:

Long Miniature Vane Anemometer

same as (14164) but:
immersion depth 320 mm from \varnothing 20 mm · 0.8...2 m helix cable
0.25 kg

Accessory:

32.14163.006 000 (14163 U6)

Extension Pipe · L 500 mm · 0.1 kg

00.14423.190 000 (14423)

Measuring element:
Measuring range:
Accuracy:
Starting value:
Range of application:
Dimensions:
Weight:

Cup Anemometer

measuring generator
1.1...90 m/s wind speed
 $\pm 1.5\%$ of measuring value • ± 0.2 m/s
1.1 m/s (compensated)
-10...+80°C
cup \varnothing 65 mm · shaft \varnothing 23 mm · 0.8...2 m helix cable
0.5 kg



00.08163.120 000 (8163)

Measuring elements:
Meas.-/ Range of application:
Accuracy:
Dimensions:
Weight:

Humidity-Temperature Sensor

capacitive • Pt 100
0...100% r. h. • -40...+85°C
 $\pm 1.5\%$ r. h. • ± 0.3 °C at 23°C
 \varnothing 15 mm · L 168 mm · IP 65
max. 2.5 m helix cable
0.15 kg

