New Fluke 971 Temperature Humidity Meter:

Taking indoor comfort to the next degree



Superior usability and ergonomic design

- Bright, backlit dual display of humidity and temperature highlights readings in less than ideal environments.
- 99 record storage capacity supports data analysis across numerous locations.
- Durable, ergonomic holster with integrated belt clip allows for convenient storage and retrieval in the field.
- Wet bulb and dew point calculations at the push of a button.

Customer market:

- Operations and Maintenance and HVAC Contractors will respond to indoor climate complaints and use the Fluke 971 to ensure parameters remain within acceptable ranges.
- IAQ Specialists will monitor temperature and humidity conditions as part of a comprehensive indoor air quality investigation.

Assess thermal comfort conditions quickly and accurately

- Satisfy your customers with a solution that works. The Fluke 971 provides the answers your customers need, with the reliability and ruggedness that Fluke products are known for. From the wet bulb and dew point calculations to the rugged holster and belt clip, the Fluke 971 provides the features your customers want with an eye towards protecting their investment for some time to come.
- Expand your existing Fluke HVAC / IAQ line. Be a single source provider for Fluke HVAC / IAQ test and measurement products, the preferred brand of HVAC and MRO professionals.
- **Partner with Fluke.** The Fluke team will support you in growing your IAQ business with extensive market initiatives including lead generation and merchandising.

General specifications

Temperature range				
Temperature accuracy ± 0.5 °C -20 °C to 45 °C ± 0.5 °C -20 °C to 0 °C and 45 °C to 60 °C ± 1.0 °F -4 °F to 32 °F and 113 °F to 140 °F ± 2.0 °F Resolution 0.1 °C (0.1 °F) Response time (temperature) 500 ms Temperature sensor type NTC Relative humidity range 5 % to 95 % RH Relative humidity accuracy ± 2.5 %RH (10 % to 90 % RH) @23 °C (73.4 °F) ± 5.0 %RH Humidity Sensor Electronic capacitance polymer film sensor. Data Storage 99 points Response time (humidity) For 90 % of total range - 60 sec. with 1m/s air movement Operating temperature -20 °C to 60 °C (-4 °F to 140 °F) Humidity 0 °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) Humidity 0 °C to 60 °C (-4 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed) Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries <th>Temperature range</th> <th colspan="3">-20 °C to 60 °C</th>	Temperature range	-20 °C to 60 °C		
0 °C to 45 °C ± 0.5 °C -20 °C to 0 °C and 45 °C to 60 °C ± 1.0 °C 32 °F to 113 °F ± 1.0 °F -4 °F to 32 °F and 113 °F to 140 °F ± 2.0 °F Resolution 0.1 °C (0.1 °F) Response time (temperature) 500 ms Temperature sensor type NTC Relative humidity range 5 % to 95 % RH Relative humidity accuracy ± 2.5 %RH (10 % to 90 % RH) @23 °C (73.4 °F) ± 5.0 %RH Humidity Sensor Electronic capacitance polymer film sensor. Data Storage 99 points Response time (humidity) For 90 % of total range - 60 sec. with 1m/s air movement Operating temperature -20 °C to 60 °C (-4 °F to 140 °F) Humidity 0 °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed) Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries		(-4 °F to 140 °F)		
-20 °C to 0 °C and 45 °C to 60 °C 32 °F to 113 °F -4 °F to 32 °F and 113 °F to 140 °F Resolution Response time (temperature) Temperature sensor type Relative humidity range Relative humidity accuracy (10 % to 90 % RH) @23 °C (73.4 °F) (< 10 %, > 90 % RH) @23 °C (73.4 °F) Humidity Sensor Data Storage Response time (humidity) Response time (humidity) For 90 % of total range - 60 sec. with 1m/s air movement Operating temperature Temperature Temperature -20 °C to 60 °C (-4 °F to 140 °F) Humidity O °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) -20 °C to 60 °C (-4 °F to 140 °F) -20 °C to 60 °C (-4 °F to 140 °F) -20 °C to 60 °C (-4 °F to 140 °F) -20 °C to 60 °C (-4 °F to 140 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed) Weight Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries	Temperature accuracy			
### 20 °F to 113 °F	0 °C to 45 °C	± 0.5 °C		
-4 °F to 32 °F and 113 °F to 140 °F ± 2.0 °F Resolution 0.1 °C (0.1 °F) Response time (temperature) 500 ms Temperature sensor type NTC Relative humidity range 5 % to 95 % RH Relative humidity accuracy (10 % to 90 % RH) @23 °C (73.4 °F) ± 2.5 %RH ⟨< 10 %, > 90 % RH) @23 °C (73.4 °F) ± 5.0 %RH Humidity Sensor Electronic capacitance polymer film sensor. Data Storage 99 points Response time (humidity) For 90 % of total range - 60 sec. with 1m/s air movement Operating temperature -20 °C to 60 °C (-4 °F to 140 °F) Humidity 0 °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed)	-20 °C to 0 °C and 45 °C to 60 °C	± 1.0 °C		
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(10 % to 90 % RH) @23 °C (73.4 °F)	Relative humidity range	5 % to 95 % RH		
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Humidity Sensor Data Storage 99 points Response time (humidity) For 90 % of total range - 60 sec. with 1m/s air movement Operating temperature Temperature -20 °C to 60 °C (-4 °F to 140 °F) Humidity O °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed) Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries	(10 % to 90 % RH) @23 °C (73.4 °F)	± 2.5 %RH		
Data Storage Polymer film sensor. Por 90 % of total range - 60 sec. with 1m/s air movement Poperating temperature Temperature Temperature -20 °C to 60 °C (-4 °F to 140 ° F) Humidity O °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed) Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries	(< 10 %, > 90 % RH) @23 °C (73.4 °F)	± 5.0 %RH		
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Response time (humidity)For 90 % of total range - 60 sec. with 1m/s air movementOperating temperature-20 °C to 60 °C (-4 °F to 140 °F)Humidity0 °C to 55 °C (32 °F to 131 °F)Storage temperature-20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed)Weight190 g (6.6 oz)Dimensions194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in)Battery Type4 x AAA alkaline batteries		polymer film sensor.		
$\begin{array}{c} - 60 \text{ sec. with } 1 \text{m/s air} \\ \text{movement} \\ \\ \hline \textbf{Operating temperature} \\ \hline \textbf{Temperature} \\ -20 °C to 60 °C \\ (-4 °F to 140 °F) \\ \hline \textbf{Humidity} \\ \hline \textbf{O °C to 55 °C} \\ (32 °F to 131 °F) \\ \hline \textbf{Storage temperature} \\ -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. \\ (with battery removed) \\ \hline \textbf{Weight} \\ \hline \textbf{190 g (6.6 oz)} \\ \hline \textbf{Dimensions} \\ \hline \textbf{194 mm x 60 mm x 34 mm} \\ (7.6 in x 2.4 in x 1.3 in) \\ \hline \textbf{Battery Type} \\ \hline \end{array}$	Data Storage	99 points		
$\begin{array}{c} \textbf{movement} \\ \textbf{Operating temperature} \\ \textbf{Temperature} & -20 ^{\circ}\text{C to 60 } ^{\circ}\text{C} \\ (-4 ^{\circ}\text{F to 140 } ^{\circ}\text{F}) \\ \textbf{Humidity} & 0 ^{\circ}\text{C to 55 } ^{\circ}\text{C} \\ (32 ^{\circ}\text{F to 131 } ^{\circ}\text{F}) \\ \textbf{Storage temperature} & -20 ^{\circ}\text{C to 60 } ^{\circ}\text{C (-4 } ^{\circ}\text{F to 140 } ^{\circ}\text{F) at} < 80 ^{\circ}\text{R.H.} \\ (\text{with battery removed}) \\ \textbf{Weight} & 190 \text{g (6.6 oz)} \\ \textbf{Dimensions} & 194 \text{mm x 60 mm x 34 mm} \\ (7.6 \text{in x 2.4 in x 1.3 in)} \\ \textbf{Battery Type} & 4 \text{x AAA alkaline batteries} \\ \end{array}$	Response time (humidity)	For 90 % of total range		
Operating temperature Temperature -20 °C to 60 °C (-4 °F to 140 ° F) Humidity 0 °C to 55 °C (32 °F to 131 °F) Storage temperature -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % R.H. (with battery removed) Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries		- 60 sec. with 1m/s air		
Temperature $-20 ^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$ $(-4 ^{\circ}\text{F to } 140 ^{\circ}\text{F})$ Humidity $0 ^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ $(32 ^{\circ}\text{F to } 131 ^{\circ}\text{F})$ Storage temperature $-20 ^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$ ($-4 ^{\circ}\text{F to } 140 ^{\circ}\text{F}$) at $< 80 ^{\circ}\text{R.H.}$ $(\text{with battery removed})$ Weight $190 \text{g} (6.6 \text{oz})$ Dimensions $194 \text{mm x } 60 \text{mm x } 34 \text{mm}$ $(7.6 \text{in x } 2.4 \text{in x } 1.3 \text{in})$ Battery Type $4 \text{x AAA alkaline batteries}$		movement		
(-4 °F to 140 ° F) Humidity	Operating temperature			
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$ \begin{array}{c} 140~\text{°F})~\text{at} < 80~\%~\text{R.H.} \\ \text{(with battery removed)} \\ \hline \textbf{Weight} & 190~\text{g (6.6 oz)} \\ \hline \textbf{Dimensions} & 194~\text{mm x 60 mm x 34 mm} \\ \text{(7.6 in x 2.4 in x 1.3 in)} \\ \hline \textbf{Battery Type} & 4~\text{x AAA alkaline batteries} \\ \hline \end{array} $		· · · · · · · · · · · · · · · · · · ·		
Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries	Storage temperature	-20 °C to 60 °C (-4 °F to		
Weight 190 g (6.6 oz) Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries		140 °F) at $<$ 80 % R.H.		
Dimensions 194 mm x 60 mm x 34 mm (7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries		(with battery removed)		
(7.6 in x 2.4 in x 1.3 in) Battery Type 4 x AAA alkaline batteries	Weight	190 g (6.6 oz)		
Battery Type 4 x AAA alkaline batteries	Dimensions			
, , , , , , , , , , , , , , , , , , ,		(7.6 in x 2.4 in x 1.3 in)		
	Battery Type	4 x AAA alkaline batteries		
Battery Life 200 hours	Detterm Life	200 hours		



Related tools and accessories

Fluke-983 Particle Counter

Lightweight and accurate in any position, the Fluke 983 has a six-channel particle size display and extensive data-logging capacity, making it the perfect tool for monitoring problem areas. Use it to respond to building occupant complaints and monitor air particle concentrations in sensitive areas such as cleanrooms, hospitals, and food and beverage plants.

Fluke CO-220 Carbon Monoxide Meter

CO meter measures levels from 0 to 1000 ppm, with an audible signal triggered more frequently as CO levels rise. Used to detect dangerous CO leaks. CO-220 responds very quickly to ambient changes in carbon monoxide concentration without the use of a pump. Perfect for professionals who need to measure CO levels where the accumulation of combustion gas is possible.

Fluke CO-210 Carbon Monoxide Probe

Use as a standalone device or as an accessory to a digital multimeter with DC millivolt inputs. The CO-210 displays CO level readings from 0 to 999 ppm, with a resolution of 1 ppm.



VoltAlert™ – 1AC-II, 1LAC-II

The next generation voltage testers from Fluke are easy to use—just touch the tip to a terminal strip, outlet, or cord. When the tip glows red and the unit beeps, you know there's voltage in the line. Electricians, maintenance, service, safety personnel, and homeowners can quickly test for energized circuits and defective grounds on the factory floor, in the shop, or at home.

- The 1AC-II using Fluke Voltbeat[™] technology continually tests its battery and circuitry, so you know it's working.
- The VoltAlert[™] is a Category IV 1000 V product, the highest rating of its kind and important for improved user protection.
- Voltage detection of 90 V to 1000 V ac, plus a 20 V to 90 V ac low voltage model.
- It is rugged, reliable, and has a two-year warranty.



Ordering Information

Product ordering information for distributor purchasing agents

To order Fluke products, please contact your local Fluke representative.

Fluke Model #	Fluke oracle #	UPC code	Description	Height Metric (English)	Length Metric (English)	Width Metric (English)	Weight Metric (English)	Country of Origin
971	2418208	0 95969 28751 7	Temperature Humidity Meter	6.1 cm (2.4 in.)	31.5 cm (12.4 in)	17.78 cm (7.0 in)	0.32 kg (0.7 lbs)	Taiwan
983	2414646	0 95969 28697 8	Particle Counter	31.75 cm (12.5 in)	15.88 cm (6.25 in)	34.93 cm (13.75 in)	3.8 kg (8.4 lbs)	USA
CO-210	664706	0 95969 06179 7	Carbon Monoxide Probe	6.35 cm (2.5 in)	21.59 cm (8.5 in)	10.92 cm (4.3 in)	0.45 kg (1.0 lb)	Canada
CO-220	664711	0 95969 06180 3	Carbon Monoxide Meter	6.35 cm (2.5 in)	23.88 cm (9.4 in)	10.92 cm (4.3 in)	0.45 kg (1.0 lb)	Canada
1AC-A1 -II	2432932	0 95969 29078 4	ACV Detector 90 - 1000 V Eng, Frn, Spn	25.4 cm (10 in)	3.92 cm (1.54 in)	18.4 cm (7.25 in)	0.15 kg (0.34 lb)	China
1AC-A2 -II	2432944	0 95969 29079 1	ACV Detector 90 - 1000V Por, Jpn, TCh	25.4 cm (10 in)	3.92 cm (1.54 in)	18.4 cm (7.25 in)	0.15 kg (0.34 lb)	China
1AC-P1 -II	2433000	0 95969 29085 2	ACV Detector 200 - 1000V Eng, Thai, Ch	25.4 cm (10 in)	3.92 cm (1.54 in)	18.4 cm (7.25 in)	0.15 kg (0.34 lb)	China
1LAC-A1 -II	2433021	0 95969 29087 6	LowV Detector 20 - 90 V Eng, Frn, Spn	25.4 cm (10 in)	3.92 cm (1.54 in)	18.4 cm (7.25 in)	0.15 kg (0.34 lb)	China