Technical Data

Fluke 972B/972ES Temperature Humidity Meter

Measure-and-view, industrial design, necessity for inspection

Temperature and humidity are two important items for comfort test of indoor air and environment. The Fluke 972Series Temperature Humidity Meter can quickly and easily collect accurate humidity and temperature data. It features streamlined industrial design and is comfortable to hold. Simplified buttons require no complicated operations. The selected high-precision sensors ensure that reliable data is collected. The Fluke 972 Series is an indispensable environmental monitoring tool for facility maintenance and engineering technicians, HVAC service contractors, R&D and manufacturing engineers, and professionals involved in indoor air quality (IAQ) assessments.

- Two models, with internal and external probes, are available for limited space
- Accuracy of ± 0.4 °C and ± 3% RH, to meet industrial grade testing requirements
- 99 sets of stored data, easy to review (Fluke 972Bonly)
- Comfortable grip and ergonomic design
- Reinforced sensor protective cover for worry-free operation

Multiple records,

Measure-and-view.

- **Clean room**
- **Indoor environmental quality (IEQ)**
- **Temperature and humidity verification**
- **Equipment and production inspection**

Specifications

	972B	972ES
Detailed Specifications		
Sensor Type	Internal + External	External
Temperature Range	–30.0 °C to 70.0 °C (internal sensor); –40.0 °C to 100°C (external sensor)	–40.0 °C to 100 °C
Temperature Accuracy	Internal sensor: ±0.4 °C (–30 °C to 70 °C) External sensor: ±0.4 °C (–40 °C to 90 °C); ±0.5 °C (90 °C to 100 °C)	±0.4 °C (–40 °C to 90 °C); ± 0.5 °C (90 °C to 100 °C)
Temperature Resolution	0.1 °C	
Dew Point Temperature — Range	–40.0 °C to 100 °C	N/A
Dew Point Temperature — Resolution	0.1 °C	N/A
Wet Bulb Temperature — Range	–20.0 °C to 60.0 °C	N/A
Wet Bulb Temperature — Resolution	0.1 °C	N/A
Humidity — Range	0% to 99.9% RH	
Humidity — Accuracy	±3% RH (20% RH to 80% RH @ 25 °C); ± 5% RH (< 20% RH, > 80 % RH @ 25 °C)	
Humidity — Resolution	0.1% RH	
Date Storage	Yes. Up to 99 sets	N/A
Display	2-line LCD display, with backlight	No
Auto Off	Power off after 20 min without any operation	N/A
General Specifications		
Temperature — Operating	–30 °C to 70 °C	–40 °C to 70 °C
Temperature — Storage	–30 °C to 70 °C, <80% RH (without battery)	–40 °C to 70 °C, <80% RH
Altitude — Operating	2000 m	
Altitude — Storage	12000 m	
Relative Humidity — Operating	0% RH to 99% RH	
Relative Humidity — Storage	< 80% RH	
Power Supply — Battery Type	2 x AAA Batteries	—
Power Supply — Battery Life	1000 hrs for continuous operating, backlight off	—
Safety	IEC61010-1, Pollution Degree 2	
Dimensions (L x W x H)	211 × 58 × 40 mm	264 × 33 × 28 mm
Weight	172 g (body)	127 g
Electromagnetic Environment (EMC)	IEC 61326-1: Portable, Electromagnetic Environment; IEC 61326-2-2; CISPR 11: Group 1; Class A	
IP Rating	IEC 60529: IP30, non-operating	
Warranty	1 year	

Ordering Information

Fluke 972B Temperature Humidity Meter

Includes:
- The Fluke 972B
- Fluke 972ES external sensor
- Black soft case

Fluke 972ES external temperature/humidity sensor

Includes:
- Fluke 972ES external sensor

It can be used with 972B