

Technical data INCU II[™] Incubator/Radiant Warmer Analyzer

Protect a baby's safety by regularly performing all necessary preventive maintenance tests on infant incubators and radiant warmers. Life matters. Testing matters.

The Fluke Biomedical INCU II is an all-in-one Incubator/Radiant Warmer Analyzer that simplifies testing and ensures proper performance and safety of infant incubators, transport incubators and radiant warmers by complying to global standards (IEC 60601-2-19, IEC 60601-2-20, IEC 60601-2-21).

Portable and intuitive-to-use, the INCU II simultaneously tests temperature, airflow, sound, and humidity. Test results and parameters can be monitored in real-time on a large easy-to-read LCD screen, or be transferred to your computer wirelessly*.

Pass/Fail indicators are displayed at the end of tests for fast and easy troubleshooting, and a general testing option allows you to complete a quick test in just 15 minutes.

The INCU II can stay in the incubator chamber up to 24 hours using its rechargeable battery, or for 48 hours on AC power, without compromising the integrity of the test environment.



Key features

- Enables simultaneous measurement of humidity, airflow, sound, and temperature from six different points
- Displays pass/fail indicators and real-time test results on a large LCD screen
- Wireless* functionality supports fast and convenient downloading of test results and data
- Simplifies test set-up with color-coded temperature probes that match color of input ports
- Has both Standards-based testing and a General Testing option—which allows you to complete a test in as little as 15 minutes
- Portable and compact design, weighs less than three pounds
- Creates personalized test sequences for automatic test completion
- Able to choose from 10 different language interfaces
- Complies with all global standards, including IEC 60601-2-19, IEC 60601-2-20 and IEC 60601-2-21

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Specifications

Physical specifications				
Size (HxWxL without sensors)	23 cm x 21 cm x 6 cm (9.0 in x 8.5 in x 2.5 in)			
Total weight	12.2 cm x 9.7 cm x 4.8 cm (4.8 in x 3.8 in x 1.9 in)			
Weight with sensors	1.4 kg (3 lb)			
Pucks (5)	2.5 kg (5.5 lb)			
Carrying case	1.1 kg (2.5 lb)			
Power				
Power Adapter—Universal voltage				
Input	100 V to 240 V with adaptors 50 Hz/60 Hz			
Output	15V dc, 1.3 A maximum			
Rechargeable lithium-ion battery, internal	7.4 V, 7.8 Ah, 58 Wh 24 hour battery life with 30 second sample rate			
Measurements and tests specifications				
Air convection peripheral temperature sensors for incubator (T1-T5)				
Number of sensors	5			
Range	0 °C to 50 °C			
Accuracy	±0.05 °C			
Display resolution	0.01 °C			
Relative humidity				
Range	0 % to 100 %			
Accuracy	+/- 3 % RH (0 % to 100 % non-condensing)			
Display resolution	0.1 % RH			
Airflow				
Range	0.2 m/sec to 2.0 m/sec at 35°C, 50 % RH			
Accuracy	±0.1 m/sec			
Display resolution	0.01 m/sec			
Sound pressure				
Range	30 dB(A) to 100 dB(A)			
Accuracy	± 5 dB(A)			
Display resolution	0.1 dB(A)			
Standard	IEC-61672-1 Class 2 from 31.5Hz to 8kHz			
Surface temperature				
Range	-5 °C to 60 °C			
Accuracy	± 0.5 °C			
Display resolution	0.05 °C			



Specifications continued

Environmental specifications	
Operating temperature	10 °C to 40 °C
Storage temperature	-20 °C to 60 °C
Humidity	10 % to 90 % non-condensing
Altitude	2000 m
Ingress protection rating	IP-20
Safety	
IEC 61010-1	Overvoltage category none, pollution degree 2
IEC 61326-1	Basic
Electromagnetic compatibility (EM	C)
Emissions classification IEC CISPR11: Group 1, Class A.	Group 1 has intentionally generated and/or use conductively coupled radio-frequency energy, which is necessary for the internal functioning of the equipment itself. Class A equipment is suitable for use in nondomestic locations and/or directly connected to a low voltage power supply network.
USA (FCC) Intentional radiators	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause unde- sired operation. (15.19)
Korea (KCC) Class A Equipment (Industrial Broadcasting & Communication Equipment)	Class A: Equipment meets requirements for industrial electromag- netic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.
Wireless module listing	
FCC (United States) compliant (Class A)	FCC ID: X3ZBTMOD3
IC (Industry Canada) compliant	IC: 8828A-MOD3
CE (European) certified	CE0051
802.15.1 qualified	QD ID: B019224
Wireless radio	
Frequency range	2412 MHz to 2483 MHz
Output power	10 mW
Interface	
Push navigation buttons	Power on/off, test, select, back, and arrow keys
User preferences	Adjust backlight, display brightness, and set clock
Recall and run templates on tester	General and personalized test templates allow for on-board test automation
Templates	Time duration, frequency of data capture and tests
Select user preferences	Units of measure, view test results of current and past tests on the Analyzer
View battery life	Indicator bar shows life remaining
Interface languages	English, French, German, Italian, Spanish, Brazilian Portuguese, Simplified Chinese, Japanese, Russian, Polish



Ordering information

Item #	Model	Description
4722620	INCU II-BT	Incubator Analyzer, Wireless
4722635	INCU II-NO BT	Incubator Analyzer, Non-Wireless

Standard accessories

4720996 4721000 4721017 4721021 4721039 4721042 4721056 4721063 4721074 4721109 4721111 4721127 4721130 4721148 4721153 4721166	INCU II-Cable INCU II S Sensor INCU II A F Sensor INCU II A F Sensor INCU II R Sensor INCU II G Sensor INCU II Y Sensor INCU II W Sensor INCU II B Sensor INCU II B Sensor INCU II G Puck INCU II G Puck INCU II Y Puck INCU II W Puck INCU II B Puck INCU II B Puck INCU II B Puck	K-Type Thermocouple Sound Sensor Air Flow Sensor Humidity Sensor Red Temperature Sensor Green Temperature Sensor Yellow Temperature Sensor White Temperature Sensor Blue Temperature Sensor Tripod Spacers Red Temperature Puck Green Temperature Puck Yellow Temperature Puck White Temperature Puck Blue Temperature Puck
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4721166	INCU II USB	Type A to Micro B, USB Cable
4721194 4715713 4715749	INCU II Adapter INCU II Pad INCU II Carry Case	AC Adapter Placement Pad Microfiber Soft Carry Case
4724692	INCU II Puck Case	Soft Carry Case Puck

Optional accessories

4721175 INCU II ST Heater Skin Temperature Heater Assembly

Fluke Biomedical.

We empower our everyday heroes to focus only on protecting lives.

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