



Indigo80 Handheld Indicator

For portable diagnostics



Features

- Flexible operation with Vaisala Indigo-compatible probes and transmitters
- Intuitive user interface available in 10 languages
- Rechargeable battery
- Robust design and modern appearance
- Logged measurement data can be transferred to PC via Vaisala Insight software

Vaisala Indigo80 Handheld Indicator is an industrial-grade portable diagnostics tool. Accommodating up to two Vaisala measurement probes, Indigo80 is ideal for spot-checking and process monitoring, as well as for configuring, troubleshooting, calibrating, and adjusting Vaisala Indigo-compatible probes and transmitters.

Variety of probe options

The Indigo80 indicator has two cable ports by which a combination of two probes or transmitters can be simultaneously connected to the indicator. Indigo80 can communicate with most current and future Vaisala probes and transmitters for measuring a wide range of parameters.

- Humidity and temperature
- Dew point
- Carbon dioxide
- Hydrogen peroxide vapor
- Moisture in oil

For the full set of probes and transmitters currently compatible with Indigo80, see the following page. For more information on the Indigo product family, see www.vaisala.com/indigo.

Robust and reliable

The sturdy aluminum body of Indigo80 is resistant to chemicals and dust.

Indigo80 is powered by a rechargeable lithium-ion battery with a typical operation time of 10 h. During long-term logging Indigo80 can be powered by using an AC adapter.

Easy to use

Indigo80 has an intuitive user interface that guides the user if needed. The indicator is designed to be easy to use in numerous use cases and measurement environments.

To access logged data and configuration functionality, Indigo80 can be connected to Vaisala Insight PC software for Windows®. For more information, see www.vaisala.com/insight.

Multilingual user interface

Indigo80 has a multilingual, menu-based user interface that shows live measurement data both numerically and graphically. The Indigo80 user interface is available in 10 languages.



View live measurement data as numbers or graphs



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Devices compatible with Indigo80

Vaisala Indigo-compatible probes

HMP1, HMP3, HMP4, HMP5, HMP7, HMP8, HMP9, HMP80L, HMP80N	Humidity and temperature
TMP1	Temperature
DMP5, DMP6, DMP7, DMP8, DMP80A, DMP80B	Dew point
GMP251, GMP252	Carbon dioxide
HPP271, HPP272	Vaporized hydrogen peroxide
MMP8	Moisture in oil

Other Vaisala devices

HMP60, HMP63, HMP110, HMP110REF, HMP113, HMP115, HMM170 ¹⁾	Humidity and temperature
HMP110T, HMP115T, TMP115 ¹⁾	Temperature
DMT143, DMT143L	Dew point

Vaisala Indigo transmitters (host devices)

Indigo300, Indigo510, Indigo520

¹⁾ Indigo80 compatibility with these devices to be added during 2023.



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Technical data

Operating environment

Operating temperature	-20 ... +50 °C (-4 ... +122 °F)
Storage temperature	-20 ... +60 °C (-4 ... +140 °F), recommended +20 °C (+68 °F)
Operating and storage humidity	20 ... 85 %RH, when Ta ≤ +40 °C (+104 °F)
Charging temperature	0 ... +45 °C (+32 ... +113 °F) ¹⁾
IP rating	IP40
Use in wet location	No
Operating environment	Indoor use
Pollution degree	3
Maximum operating altitude	2000 m (approx. 6500 ft)

¹⁾ The battery will not charge at temperatures below 0 °C (+32 °F).

Inputs and outputs

Max. number of connected probes	2
Connector type	M12 5-pin female (2 pcs)
Battery ¹⁾	
Type	Rechargeable lithium-ion battery
Nominal voltage	7.2 V
Rated capacity	2900 mAh / 20.88 Wh
Charge limit voltage	8.4 V
AC adapter ²⁾	
Type	45 W USB-C AC adapter ³⁾
Connector type	USB-C
AC input	100-240 V AC, 1.2 A, 50-60 Hz
DC output	5.0 V/9.0 V/12.0 V/15.0 V DC, 3.0 A 20.0 V DC, 2.25 A 45 W
Insulation	Double or reinforced, indicated with the following symbol:
PC interface	Vaisala Insight PC software with USB-C cable (Windows OS). ⁴⁾ Data can be logged and transferred also without Insight.

¹⁾ The battery is not user-replaceable. Contact Vaisala Service Center for any battery-related maintenance needs.

²⁾ The AC adapter is an optional accessory. If using an AC adapter not provided by Vaisala, make sure it fulfills the specifications given in this table and the safety requirements listed in Indigo80 Safety Guide (M212872EN), available at docs.vaisala.com.

³⁾ 45 W AC adapter recommended for optimal performance of Indigo80. An AC adapter with a lower power rating can also be used.

⁴⁾ Insight software is available for download at www.vaisala.com/insight.

Mechanical specifications

Weight	385 g (14 oz)
Dimensions (H × W × D)	213 × 58 × 27 mm (8.4 × 2.3 × 1.1 in)
Materials	
Main body and rear piece	Aluminum EN AW-6082 T6
Back cover	Rubber (TPE) and polycarbonate (PC), reinforced with fiberglass Flammability rating UL94 V-1
Display	Strengthened glass with anti-fingerprint (AF) and anti-reflection (AR) coatings

Data logging and user interface specifications

Data logging capacity	Up to 5.5 million real-time data values
Logging interval	1 s ... 12 h
Logging duration	1 min ... memory full ¹⁾
Alarm	Audible alarm function
Supported languages	English, Chinese, Finnish, French, German, Italian, Japanese, Portuguese, Spanish, Swedish
Display	2.7" sunlight readable transfective TFT LCD color display with backlight and automatic brightness control

¹⁾ For example, logging duration for one measurement parameter with a logging interval of one second is over eight weeks. Use an AC adapter to power Indigo80 during long-term logging.

Battery operation time

Charging time	2 hours ¹⁾
Operation time (continuous use)	10 h at +20 °C (+68 °F) ¹⁾

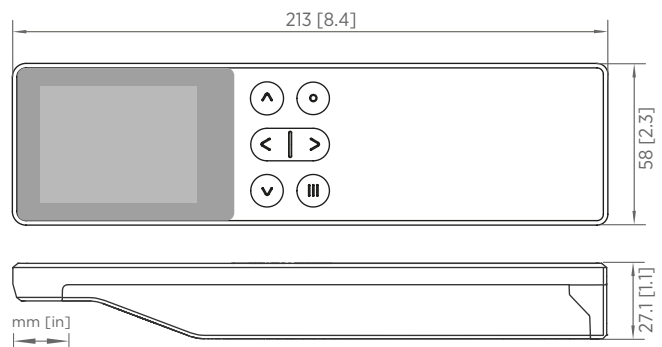
¹⁾ Typical value. Actual performance depends on, for example, the number and type of devices connected to Indigo80 and the logging interval.

Compliance

EU directives and regulations	EMC Directive (2014/30/EU) RoHS Directive (2011/65/EU) amended by 2015/863
Electromagnetic compatibility (EMC)	IEC/EN 61326-1, industrial environment CISPR 32 / EN 55032, Class B FCC part 15 B, Class B ICES-3 / NMB-3 (Class B)
Compliance marks	CE, China RoHS, FCC, RCM, UKCA

Spare parts and accessories

Cables		
Cable for transmitters (M12-M8), 1.5 m (4 ft 11 in)		262195SP
Cable for probes (M12-M12), 1.5 m (4 ft 11 in)		272075SP
Flat cable for probes (M12-M12), 1 m (3 ft 3 in)		CBL210493SP
Probe connection cable (M12-M12), 10 m (32 ft 10 in)		INDIGOCABLE10M
Other		
Weatherproof carrying case		ASM214759
Magnetic hanger for indicator		ASM214318SP



Indigo80 dimensions (front and side view)



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