



Indigo80 Handheld Indicator

For portable diagnostics









Features

- Flexible operation with Vaisala Indigo family measurement probes and other supported Vaisala devices
- Complemented by the HMP80 and DMP80 handheld probes and the GMP80P probe with pump sampling, which are optimized for portable use cases
- 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 devices, Indigo80 is ideal for spot-checking and process monitoring, as well as for configuring, troubleshooting, calibrating, and adjusting Indigo family measurement probes and other supported Vaisala devices.

Seamless compatibility for varied measurements

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

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

For the full set of Vaisala devices currently compatible with Indigo80, see the following page. For more information on the Indigo product family, see 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.

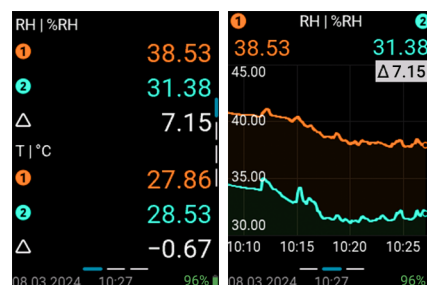
Easy to use

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 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

Vaisala devices compatible with Indigo80

Vaisala devices with older firmware versions may have limited compatibility with the Indigo80 indicator. For the most up-to-date version compatibility information, see [Firmware version compatibility of Indigo80-compatible devices Technical Note \(M212901EN\)](#), available at docs.vaisala.com.

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 |

Vaisala Indigo transmitters (host devices)

Indigo300, Indigo510, Indigo520

Other Vaisala devices

| | |
|--|---|
| HMP60, HMP63, HMP110, HMP113, HMP115 probes HMM170 module | Humidity and temperature |
| HMP110T, HMP115T, TMP115 probes | Temperature |
| DMT143, DMT143L transmitters | Dew point |
| GMW90 and HMW90 series transmitters | Humidity, temperature, and carbon dioxide |
| MGP241 probe | Carbon dioxide |
| HMT370EX series transmitters | Humidity and temperature |
| PR53 series refractometers | Liquid concentration |

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).

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, data 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

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

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


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 |

Compliance

| | |
|-------------------------------------|--|
| EU directives and regulations | EMC Directive (2014/30/EU) RoHS Directive (2011/65/EU) as 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) |
| Electrical safety | IEC/EN 61010-1 |
| Compliance marks | CE, China RoHS, FCC, RCM, UKCA |

Inputs and outputs

| | |
|----------------------------------|--|
| Max. number of connected devices | 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.

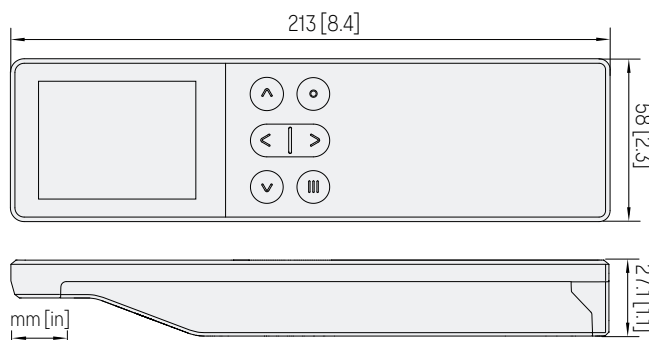
4) Insight software is available for download at vaisala.com/insight.

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 | |
| Magnetic hanger for indicator | ASM214318SP |
| Weatherproof carrying case for Indigo80 and HMP80 and DMP80 series probes | ASM214759 |
| Weatherproof carrying case for Indigo80 and a series 8 probe ¹⁾ | ASM215318 |
| Light carrying case for HM40S or Indigo80 indicator and a compatible probe ²⁾ | 230245SP |

1) For example, MMP8, HMP8, or DMP8 with a max. 2-m (6 ft 7 in) probe connection cable.

2) For example, DMP80, HMP80N, or GMP252 probe with handle accessory and a max. 1.5-m (4 ft 11 in) probe connection cable.



Indigo80 dimensions (front and side view)