



Indigo200 Series Transmitters

For Vaisala Indigo compatible probes



Features

- Transmitter USB-C port allows connecting to Vaisala Insight PC software with a generic USB cable
- Numerical and graphical color display (optional non-display version for analog model)
- IP65 enclosure
- 24 V AC/DC power supply input
- Indigo201: 3 analog outputs (mA or V)
- Indigo202: RS-485 with Modbus® RTU
- 2 configurable relays

Vaisala Indigo200 series transmitters are host devices for displaying measurement values from Vaisala Indigo-compatible probes and transmitting measurements to automation systems through analog signals, Modbus RTU communication, or relays.

Transmitter for Vaisala Indigo-compatible probes

- HMP series humidity and temperature probes HMP1, HMP3, HMP4, HMP5, HMP7, HMP8, HMP9
- TMP1 temperature probe
- DMP series dew point probes DMP5, DMP6, DMP7, DMP8
- GMP250 series CO₂ probes GMP251, GMP252
- HPP270 series vaporized hydrogen peroxide probes HPP271, HPP272
- MMP8 moisture in oil probe

Indigo200 series transmitters are plug-and-play probe host devices for current and future Vaisala Indigo-compatible probes. The host device has a color display with numeric and graph measurement viewing options; Indigo201 is also available as a non-display version that uses an LED indicator for notifications.

Vaisala Indigo-compatible probes are connected either directly to the host or by using a cable between Indigo200 and the probe.

The surface of the Indigo200 enclosure is smooth, which makes it easy to clean. It is also resistant to dust and most chemicals, such as H₂O₂ and alcohol-based cleaning agents.

For easy access to configuration and monitoring options, Indigo200 can be connected to Vaisala Insight PC software using the USB-C port on the transmitter with any generic USB cable that has a USB-C connector.

With Insight PC software, you can configure both the host device and the probes connected to it. Insight PC software also provides options for temporary viewing of the measurement data and diagnostics.

For more information on Indigo transmitters and the Indigo product family, see www.vaisala.com/indigo.

Technical data

General

- Color display (Indigo201: optional non-display version)
- USB connection to Vaisala Insight PC software for easy access to configuration and monitoring options.

Indigo-compatible probes

| Measurement type | Probe models |
|-----------------------------|--|
| Humidity and temperature | HMP1, HMP3, HMP4, HMP5, HMP7, HMP8, HMP9 |
| Temperature | TMP1 |
| Dew point | DMP5, DMP6, DMP7, DMP8 |
| Carbon dioxide | GMP251, GMP252 |
| Vaporized hydrogen peroxide | HPP271, HPP272 |
| Moisture in oil | MMP8 |

Operating environment

| | |
|-----------------------|--|
| Operating temperature | With display -20 ... +60 °C (-4 ... +140 °F) Without display -40 ... +60 °C (-40 ... +140 °F) |
| Storage temperature | -40 ... +70 °C (-40 ... +158 °F) |
| Chemical tolerance | Temporary exposure during cleaning: <ul style="list-style-type: none"> • H₂O₂ (6000 ppm, non-condensing) • Alcohol-based cleaning agents such as ethanol and IPA (max. 70 % concentrate) |
| IP rating | IP65 ¹⁾ |
| Indoor/outdoor use | Indoor use |

¹⁾ Note that the IP65 rating only applies when the cable gland wiring option is used, and the lead-through with the pierceable seal at the back of the transmitter is left intact. See user documentation for more information on Indigo200 wiring options.

Inputs and outputs

| | |
|--|--|
| Insight PC software configuration access ¹⁾ | USB-C port on transmitter (compatible with generic USB cables) |
| Power supply input | 15–30 V DC ²⁾ 24 V AC ±10 % 50/60 Hz |
| Relay contacts x 2 | Max. switching current 1 A Max. switching voltage 40 V DC / 28 V AC |

Indigo201 model

| | |
|---|--|
| Three analog outputs (voltage or current) | Voltage: 0–1 V, 0–5 V, 0–10 V, 1–5 V, scalable, min. load 1 kΩ Current: 4–20 mA, 0–20 mA, scalable, max. load 500 Ω |
| Accuracy of analog outputs at 20 °C | ±0.1 % full scale for 0–10 V and 0–20 mA |

Indigo202 model

| | |
|------------------------|--------------------|
| Digital communications | RS-485, Modbus RTU |
|------------------------|--------------------|

¹⁾ Vaisala Insight software for Windows* available at www.vaisala.com/insight.

²⁾ When used with the HMP7 probe, the minimum required power supply input is 18 V DC.

Compliance

| | |
|-------------------------------------|------------------------------------|
| Electromagnetic compatibility (EMC) | EN 61326-1, industrial environment |
| Compliance marks | CE, RCM |

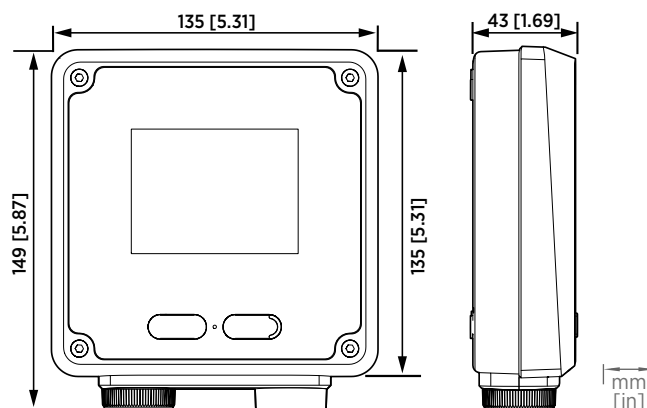
Mechanical specifications

| | |
|----------------------------|--|
| Housing material | PC/ABS plastic |
| Display window material | PMMA plastic |
| Connection screw terminals | 26–20 AWG |
| Weight | 402 g (14.2 oz) |
| Dimensions (H×W×D) | 149 × 135 × 43 mm (5.87 × 5.31 × 1.7 in) |

Spare parts and accessories

| | |
|---|-------------------|
| USB-C connection cable (2 m, type C to A, for Insight PC software access) ¹⁾ | 273956 |
| Probe connection cable, 1 m (3 ft 3 in) | INDIGOCABLE1M |
| Probe connection cable, H ₂ O ₂ compatible, 1 m (3 ft 3 in) | INDIGOCABLEHDM5 |
| Probe connection cable, 3 m (9 ft 11 in) | INDIGOCABLE3M |
| Probe connection cable, H ₂ O ₂ compatible, 3 m (9 ft 11 in) | INDIGOCABLEHDM3M |
| Probe connection cable, 5 m (16 ft 5 in) | INDIGOCABLE5M |
| Probe connection cable, H ₂ O ₂ compatible, 5 m (16 ft 5 in) | INDIGOCABLEHDM5M |
| Probe connection cable, 10 m (32 ft 10 in) | INDIGOCABLE10M |
| Probe connection cable, H ₂ O ₂ compatible, 10 m (32 ft 10 in) | INDIGOCABLEHDM10M |
| Universal mains power supply with EU/US/UK/AUS plugs | INDIGOPOWER24VSP |

¹⁾ Note that a USB-C cable is not included in Indigo200 deliveries by default. A generic USB-C cable (type C to A) can also be used.



Indigo200 series dimensions

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