



# Indigo200 Series Transmitters

For Vaisala Indigo compatible probes



## Features

- Wireless interface for configuration and temporary use
- 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/or transmitting them 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 CO<sub>2</sub> 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 numerical

and graphical color display; 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.

Indigo200 has a browser-based wireless configuration interface for mobile devices and computers that support a wireless connection (IEEE 802.11 b/g/n WLAN). The host device and the probes connected to it can be configured using the wireless user interface. It also allows for temporary viewing of the measurement data.

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 H<sub>2</sub>O<sub>2</sub> and alcohol-based cleaning agents.

For more information on Indigo transmitters and the Indigo product family, see [www.vaisala.com/indigo](http://www.vaisala.com/indigo).



Wireless configuration interface example (desktop and mobile views)

# Technical data

## General

- Color display (Indigo201: optional non-display version)
- Wireless (WLAN) configuration interface: connect to Indigo200 and use the browser-based user interface for device configuration and measurement data viewing

## 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"> <li>• H<sub>2</sub>O<sub>2</sub> (6000 ppm, non-condensing)</li> <li>• Alcohol-based cleaning agents such as ethanol and IPA (max. 70 % concentrate)</li> </ul>
IP rating	IP65
Indoor/outdoor use	Indoor use
Maximum operating altitude	3000 m (9843 ft)

## Inputs and outputs

Power supply input	15 ... 30 V DC <sup>1)</sup> 24 V AC ±10 % 50/60 Hz
Relay contacts x 2	Max. switching power 30 W Max. switching current 1 A Max. switching voltage 40 V DC / 28 V AC
<b>Indigo201 model</b>	
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
<b>Indigo202 model</b>	
Digital communications	RS-485, Modbus RTU

<sup>1)</sup> When used with the HMP7 probe, the minimum required power supply input is 18 V DC.

## Mechanical specifications

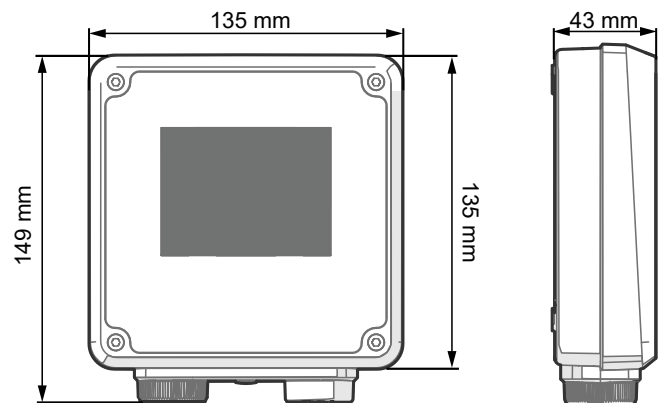
Housing material	PC/ABS plastic
Display window material	PMMA plastic
Connection screw terminals	26 AWG ... 20 AWG
Weight	402 g (14.2 oz)
Dimensions (H×W×D)	149 × 135 × 43 mm (5.87 × 5.31 × 1.7 in)

## Compliance

EU directives	Radio Equipment Directive, RED (2014/53/EU) RoHS Directive (2011/65/EU)
Electrical safety	EN 61010-1
Networking standards (wireless configuration interface WLAN access point)	IEEE 802.11 b/g/n compliant
EMC compatibility	EN 61326-1, industrial environment
Compliance marks	CE, RCM
Contains	FCC ID QOQ-WGM110, IC 5123A-WGM110, MIC 209-J00197, MSIP-CRM-BGT-WGM110
Pollution degree	2
Overvoltage category	I

## Spare parts and accessories

Probe connection cable, 1 m (3 ft 3 in)	INDIGOCABLE1M
Probe connection cable, H <sub>2</sub> O <sub>2</sub> compatible, 1 m (3 ft 3 in)	INDIGOCABLEHDM5
Probe connection cable, 3 m (9 ft 11 in)	INDIGOCABLE3M
Probe connection cable, H <sub>2</sub> O <sub>2</sub> compatible, 3 m (9 ft 11 in)	INDIGOCABLEHDM3M
Probe connection cable, 5 m (16 ft 5 in)	INDIGOCABLE5M
Probe connection cable, H <sub>2</sub> O <sub>2</sub> compatible, 5 m (16 ft 5 in)	INDIGOCABLEHDM5M
Probe connection cable, 10 m (32 ft 10 in)	INDIGOCABLE10M
Probe connection cable, H <sub>2</sub> O <sub>2</sub> compatible, 10 m (32 ft 10 in)	INDIGOCABLEHDM10M
Optional line voltage power adapter: AC Power Supply Universal 24 V DC 1.25 A 30 W	244784SP
Universal mains power supply with EU/US/UK/AUS plugs	INDIGOPOWER24V



Indigo200 series dimensions