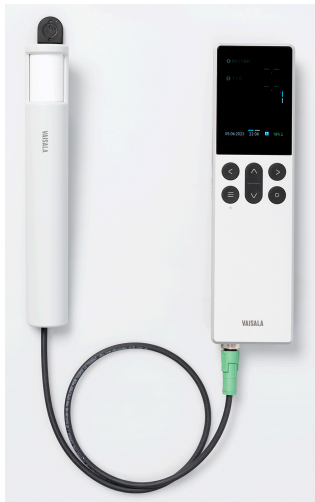


## GMP252 Carbon Dioxide Probe for PPM-Level Measurements



GMP252 Probe (top), GMP252 Probe with Handle (bottom left), Indigo80 Handheld (bottom right)

### Features/Benefits:

- Uses CARBOCAP® technology to offer exceptional stability
- Measurement range of 0 ... 10,000 ppm CO<sub>2</sub> with accuracy up to ± 40 ppm CO<sub>2</sub> (measures up to 30,000 ppm with reduced accuracy)
- Operating temperature range of -40 ... +60 °C (-40 ... +140 °F)
- Supports analog and digital outputs, or can be paired with a Vaisala Indigo transmitter for additional features
- Heated sensor head to prevent condensation
- Active temperature compensation measurement, also compensates for pressure, O<sub>2</sub>, and humidity
- IP65 classified housing; suitable for outdoor or harsh environments when installed with DTR250 radiation shield
- Available accessories: Flow-through adapter with gas ports, probe mounting flange, probe mounting clips, calibration adapter, spray shield, probe handle with magnetic hanger (shown in graphic)
- Compatible with Vaisala's [Insight PC Software](#) through USB connection. Ability to be field calibrated
- Traceable calibration certificate included

### Summary:

Carbon dioxide probe shall incorporate a CARBOCAP® NDIR sensor. Infrared (IR) light source must be used in place of a traditional incandescent light bulb to extend lifetime of sensor. Accuracy (including repeatability and non-linearity) at 25 °C (77 °F) and 1013 hPa between 0 ... 3,000 ppm CO<sub>2</sub> shall be ± 40 ppm CO<sub>2</sub>, and ± 2 % of reading from 3,000 ... 10,000 ppm. Operating humidity range shall be from 0 ... 100 %RH, non-condensing; sensor head shall have option to be heated to prevent condensation. Operating temperature range is -40 ... 60 °C (-40 ... 140 °F). Long term stability shall be < ± 60 ppm CO<sub>2</sub>/yr between 0 ... 3000 ppm. The probe shall be resistant to dust and most chemicals, such as as H<sub>2</sub>O<sub>2</sub> (up to 2000 ppm, non-condensing). Flow-through adapter accessory with gas ports available to enable tubing for easy and flexible remote measurement with a separate pump; option for multiplexer to be added for sampling gas from several locations. Analog outputs shall be scaled 0 ... 5/10 V or 0/4 ... 20 mA and correspond to the selected output scaling; digital outputs shall be Modbus® RTU or Vaisala Industrial protocol over RS-485. Operating voltage shall be 12 ... 30 VDC for digital or voltage outputs, or 20 ... 30 VDC with current outputs in use. Power consumption is typically 0.4 W and no greater than 0.5 W. Traceable calibration certificate included.