



AirWits CO2 Datasheet

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Australia - New Zealand - Hong Kong - Macau

www.thinxtra.com






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Connected AirWits CO2

RC1, RC2, RC4, RC7


 Battery Included  CO2 Level Monitoring  Temperature  Humidity  Sigfox Bidirectional Communication

The Connected AirWits CO2 is a carbon dioxide (CO2), temperature, and humidity metering device to monitor air quality remotely. The device sends the measurement data in configurable time intervals (typically every 30 min) through the OG network, powered by Sigfox.

- Measures the CO2 level, temperature and humidity,
- Measurement interval can be configured remotely via the network from 10 minutes to 24 hours,
- Sends the data every 30 min via the OG Network,
- Sigfox Single-zone capable (RC1, RC2, RC4 & RC7),
- CO2 range: 0 ~5,000 ppm (parts per million)
- Temperature range: 0 ~ 60 °C,
- Humidity range: 0 ~ 95 %,
- 5 years battery with 30 minute measurement interval,
- Simple installation,
- Maintenance-free (plug n play), ultra low cost, powerful,
- Warranty 1 year

Applications


Indoor CO2 level monitoring


Indoor Environment monitoring


Indoor temperature monitoring


Indoor humidity monitoring



Manufactured by
**Connected
Inventions**



Mounting Bracket and pre-cut 3M tape Included (Mounting screws not included)



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<https://thinXtra.com/connected-airwits-co2>

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Mechanical Specifications

Housing	ABS plastic
IP rating	IP20 - For indoor use only
Operating Temperature	0°C to +60°C
Dimensions	100 x 100 x 28 mm
Weight	186 g (including batteries)
Mounting Options	Wall mount plate & 3M Tape included (Screw not included, 'A2 Self-Tapping Screw' is recommended)
Labelling	External Label - QR code and text

Components & Sensors

Sigfox Transceiver	Single-region RC1,2,4,7 - Bi-directional comms - Class 0u
Sigfox Antenna	Internal helical antenna
Power switch	Power device on and off via discreet micro switch
CO2 Sensor	Range: 0 ... 5,000 ppm (parts per million) Accuracy: 50 ppm or 3 % or the reading
Temperature Sensor	Range: 0 to 60 °C Accuracy: 0.2 °C / 3 %
Humidity Sensor	Range: 0 to 95 % Accuracy: 2 %

Battery

Battery type	Battery Pack consisting of 3x AA (3.6V) FANSO 18505H batteries
Quantity per device	1 battery pack
Replaceable	Yes - Contact Thinextra
Included with device	Yes, pre-installed
Battery capacity	12,300 mAh
Battery life	5 years
Battery life assumptions	30 minute measurement interval

Device Functionality

Data Communicated in each message	Current CO2 level in ppm (parts per million), Current temperature in °C, Current humidity in %.
Sensor Measurement Interval	Configurable from 10 minutes to 24 hours.
Configuration update	Device requests new settings approximately every 24 hours via a Sigfox downlink
Active Power Control	If the Adaptive power control feature is set on, the device will automatically adjust the transmit power to optimum level to save battery and create less unnecessary interference to radio network. Note: Adaptive power control feature is available only in RC1 device

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