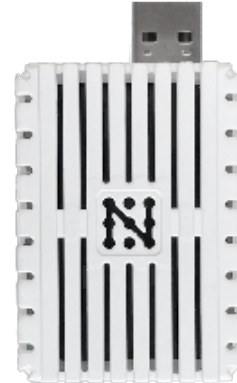




3 Gases Density Transmitter via USB

UA58-DFG

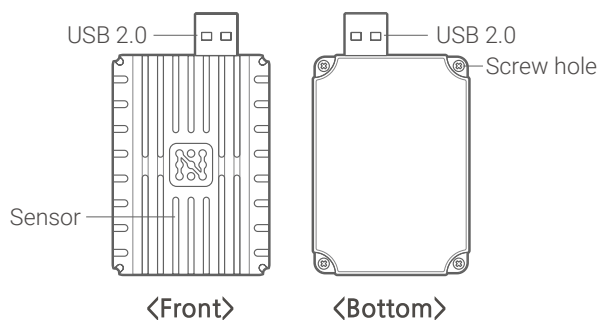
- Real-time Three Channel Gas Transmitter
- Compact Size IAQ sensor for Dining Facility
- CO,CH₂O,C₆H₆ density support
- Operating on Windows/Linux/MaCOS
- AT Command Support



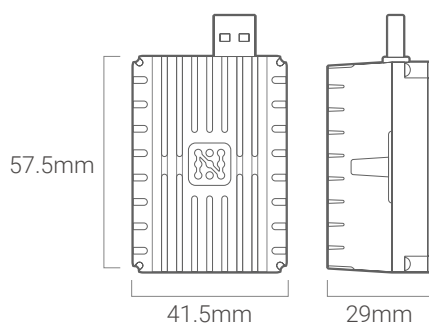
The UA58-DFG-U device have three electrochemical gases (Carbon monoxide, Formaldehyde, Benzene). It transmits measured density information of the three gases (CO,CH₂O,C₆H₆) in real-time via USB connector.

The UA Series is automatically recognized as a serial port on the operating system and accessed using the AT command. Multiple USB connections of the UA device could compose the multi-channel sensor. The optional RN17X model helps the UA series for you to setup remote web monitoring system. Cost-effective monitoring system Radionode365 is also available. With Radionode365, you can utilize all aspects of remote monitoring.

Hardware



Dimensions



⚠ CAUTION!

- Volatile organic compounds (VOCs) should be avoided in applications where electrochemical sensors are used because they either dissolve in the electrolyte or adsorb onto the sensor's housing.
- Excessive impact, vibration, high concentration gases should be avoided.
- Long term exposures and high concentrations may affect the performance characteristics
- Sudden changes in temperature/humidity cause short-term transient signals
- Avoid contact with conductors.
- Static electricity can cause distorted values.

Contact Information

- www.radionode365.com
- master@dekist.com



3 Gases Density Transmitter via USB

UA58-DFG Specifications

Sensor Channel Info.	<ul style="list-style-type: none"> • CH1 : CO (Carbon Monoxide) • CH2 : CH2O (Formaldehyde) • CH3 : C6H6 (Benzene)
Gas Sensor Type	Electro chemical
Body Material	PC(Polycarbonate)
Measurement Range	<ul style="list-style-type: none"> • CO : 0~1000 ppm • CH2O : 0~2000 ug/m3 • C6H6 : 0~50 ppm
Measurement Unit (Selection using SW)	<ul style="list-style-type: none"> • CO : ppm • CH2O : ug/m3 • C6H6 : ppm
Sensor Resolution	<ul style="list-style-type: none"> • CO : 0.5 ppm • CH2O : 0.01 ppm • C6H6 : 0.1 ppm
Sensor Accuracy (Repeatability)	<ul style="list-style-type: none"> • CO : <3% of measured value • CH2O : <1% of measured value • C6H6 : <2% of measured value
Compensation Logic	Temperature
Long-term Drift	<ul style="list-style-type: none"> • CO : 10% signal loss / year • CH2O : None • C6H6 : 5% signal loss / month
Gas Response Time	<ul style="list-style-type: none"> • CO : T90 < 50 Secs • CH2O : T90 < 60 Secs • C6H6 : T90 < 120 Secs
Warming up Time	10 mins after power on
Operating Condition	<ul style="list-style-type: none"> • Temperature : 0~50 °C • Humidity : 15%~90%
Lifetime ¹⁾	less than 24 month @ discontinuous measurement
Cross-Sensitivity	<ul style="list-style-type: none"> • CO : H2,NO,C2H4 • CH2O : H2,H2S, Ethanol, Methanol • C6H6 : CO, H2S, CH2CHCL, CH2O, C2H5OH, ETO
Power Consumption	5V, 111.5mw
Calibration Method	Two Point Calibration
USB Port	USB 2.0 Type A Plug
Output Signal	USB digital, CDC Device (AT Command)
LED	Device Status Indicator <ul style="list-style-type: none"> • BLINK RED & GREEN: Warming-up • RED KEEP ON: USB Connection Failed • BLINK GREEN: Measuring
Software Support	<ul style="list-style-type: none"> • Calibration Software Calibrator that compensates measuring error. Download: www.radionode365.com

1) Gas sensors have a longer life when measured discontinuously than when measured continuously.

Application

- Industrial safety Monitoring
- Air Ventilation System

Product Components

Model	Component
UA58-DFG	<ul style="list-style-type: none"> • UA58-DFG (1EA) • USB Extension Cable 1.5m (1EA) • Calibration Certificate (1EA)

Optional Accessories

Type	Model Number	Spec.
Sensor data transmitter via Ethernet	RN171 WC	<ul style="list-style-type: none"> • Supports cloud monitoring • Supports MODBUS TCP/ HTTP data transmission • Power: PoE 48V, IEEE802.3af/at, DC6V, 1.9W
Sensor data transmitter via WiFi	RN172 WC	<ul style="list-style-type: none"> • Supports cloud monitoring • Supports MODBUS TCP/ HTTP data transmission • Power: DC6V, 2.4W