

UMS AIR – CO2 AND RELATIVE HUMIDITY SENSOR

Part No: 1203053

Bisly Air is a ventilation CO2 and RH sensor for intelligent building automation control. UMS Air is mounted in the exhaust port of the mechanical ventilation system.

UMS Air has following functionalities:

- Air purity sensing of CO2, VOC and dust particle concentration (options)
- Air temperature and humidity sensing
- Encrypted communication in Bisly RS-485 device network



Electrical Data

Supply voltage	24VDC±25%, reverse polarity protected
Power consumption	1,5W max @24V all sensors active, sensor internal overcurrent protection at ca 1.2A
Sensors	• Air temperature: ±0.5 °C (max), -10 to 85 °C • Air relative humidity: ± 4% rH (max), 0 – 80% rH. • CO2 concentration: 0 – 2000 ppm, ±150 ppm ± 0,5% of reading • VOC (eTVOC) sensor (optional): 0 – 30000 ppb range
Security	• Fully encrypted RS485 communication data • Unique AES128 encryption keys for each device • Remotely upgradable software
Communication interface	RS-485 (Bisly proprietary protocol) Interfaces with Bisly UM8 Pro Controller
Ambient operating temperature	+5 ... 50°C
Humidity	max. 80% r.H. (non condensing)

Product Characteristics

Mounting type	Magnet strips (on the back side of the device)
Cable	90cm, stranded 4x0.5mm ² Pinout: • Green - RS-485 B (-) • Blue - GND • Red - +24 VDC • Black - RS-485 A (+)
Colour, finish	White, matte
Flammability of casing	Fire retardant according to UL94 V0
Total weight	150 g
Product dimensions	100 x 100 x 35 mm

Certifications & Standards

Markings	CE, WEEE, RoHS
Directive compliance	LVD, EMC, RoHS, WEEE

Devices must be installed and used in accordance with local regulations and Bisly installation guidelines. Incorrect installation may void warranty and cause malfunction.

Technical specifications are subject to change without prior notice as part of Bisly's continuous product development.