UPDAL
S O L U T I O N S

DATASHEET
S-2CONNECT® Pro1

S-2CONNECT® Pro1 is an indoor environment monitoring device. It periodically measures the temperature and humidity, and reports the values to a server system. The user can configure how frequent the indoor environmental parameters shall be measured, and how frequently the collected information shall be transmitted to the server system.

S-2CONNECT® Pro1 is designed to use NB-IoT a 5G radio technology, which offers extended indoor radio coverage and very long battery operation time.
S-2CONNECT® Pro1 provides a cost-effective solution for indoor environmental monitoring.

A COMPLETE SOLUTION FOR INTERNAL TEMPERATURE AND HUMIDITY MONITORING

With its discrete design, the S-2CONNECT Pro1 is suitable for indoor environmental monitoring in:

- Apartments
- Schools
- Offices
- Hospitals
- Official
- Buildings

EU/UK Coverage   S-2CONNECT Portal

- Monitor temperature and humidity
- Long battery operation time
- Discrete design
- Quick & easy installation
- Configurable
- Over the air FW update
- Distinct feedback to installers
- Utilize 5G NB-IoT radio technology
- Designed for EU and UK

Applications

Warehousing   Home automation   Environmental monitoring   Healthcare   Hospitality

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S-2CONNECT® Pro1
TECHNICAL SPECIFICATION

Communication	Cellular Modem Antenna	Quectel BC660 Internal
Frequency Bands	LTE	3,8,20
Electrical Properties	Battery Battery Operation Time	Fixed Built-In 5 years @ 1 Transmission/Day
Interface	Pushbutton LED	On/Off Control Green, Red and Blue
Sensor IC OEM Specification	Temperature Humidity	+5°C to +60°C Typical* Tolerance +/-0.2°C +5°C to +60°C Maximum* Tolerance +/-0.4°C Typical Long-Term Drift < +/-0.03°C/Year 20%RH to 80%RH Typical* Tolerance +/-2%RH 20%RH to 80%RH Maximum* Tolerance +/-3.5%RH Typical Long-Term Drift** < +/-0.2%RH/Year
Mechanical Properties	Enclosure Outer Dimensions Operating Temperature Recommended Storage Temperature*** Operating Humidity	IP30 136x68x22mm +5°C to +60°C +20°C to +25°C 20%RH to 80%RH
Software Properties	Operating System Firmware Protocols Encryption	Zephyr RTOS MQTT / CoAP TLS / DTLS
Installation	Wall mounting	Adhesive or Screw

* Tolerance values are valid for the IC manufacturers production test. Contamination due to VOCs and long-term drift are not included. Typical values are based on +/- 2 standard deviations of the IC manufacturers production test ie, 95% of the parts have less than 2%RH error.

** Assuming no exposure to contaminants and recommended operating conditions

*** Recommended storage temperature for maximising battery lifetime. Product can survive storage temperatures from -18°C to +55°C