NSS465 TEMP & HUMIDITY SENSOR

INDUSTRIAL-GRADE MONITORING FOR CLIMATE-SMART, CONNECTED ENVIRONMENTS.

Introducing the **NSS465**, an industrial-grade air temperature and humidity sensor designed for smart cities, agriculture, and environmental monitoring, with a temperature range of -40 to 80°C and a humidity range of 0 to 100%RH. This robust sensor features a waterproof aviation connector, making it suitable for harsh industrial environments, both indoors and outdoors.

It is complemented by a battery-powered IP66 wireless data logger/DTU, which supports RS485/Analog/GPIO sensors and offers built-in Bluetooth for easy OTA configuration and remote management. Together, the NSS465 and its data logger/DTU provide precise, reliable environmental monitoring, enhancing decision-making and resource utilization in various industries.

- **High Performance:** High accuracy, fast response, and stability.
- **Waterproof Aviation Connector:** Compatible with SenseCAP Sensor Hub 4G Data Logger for seamless data collection and management.
- **Wide Temperature and Humidity Range:** Suitable for industrial environment sensing scenarios.
- **Compatibility with Solar Radiation Shield:** Allows outdoor sensor protection, waterproofing, and reduced temperature buildup.
- **Low Power Consumption:** Long working expectations and cost-saving benefits.

KEY SPECIFICATIONS

Category	Specification
Signal Output	RS485 Modbus Protocol
Power Supply	3.6-30V/DC
Current Consumption	4mA @ 24V DC
Humidity Measurement Range	0-100%RH
Humidity Resolution	0.01%
Humidity Accuracy	±3%RH
Temperature Measurement Range	-40~80°C
Temperature Resolution	0.01°C
Temperature Accuracy	±0.3°C
IP Rating	IP54
Operating Temperature	-40~85°C
Installation Methods	Wall-mounted and Tube installation
Cable Length	2M
Connection Methods	Waterproof Aviation Connector and Hook-up Wire

FEATURES AT A GLANCE

YOUR WIRELESS NETWORK
Develop a fully owned private LoRa network to capture, route and process IoT data for your application at multiple facilities.

RUGGED DURABILITY WITH A BROAD SENSOR ARRAY
Robust enclosures provide a resilient platform for recording and delivering data from within a range of harsh environments.

COMPREHENSIVE SECURITY AND RELIABILITY
Robust multi-layer security at each interface to safeguard your network at every level.

BROAD CERTIFICATION AND APPROVALS
CFR 21 (part 11), PPECB, FCC, IC, CE, ASNZS, NCC, and Bluetooth SIG listing.

THE PLATFORM FOR BUILDING ACTIONABLE IoT INTELLIGENCE
Route sensor data to the cloud with NviroSense's simplified wireless connectivity deployment.

PERSONAL SUPPORT FOR YOUR IMPLEMENTATION
Support works with NviroSense engineering to help configure and deploy your application.

APPLICATION AREAS NVIROSENSE

SUPPORT PHARMACEUTICAL WAREHOUSING

NviroSense

COLD CHAIN MANAGEMENT & FOOD SAFETY

IN-FIELD AGRICULTURAL MONITORING **E:** support@nvirosense.com

INDUSTRIAL & MINING APPLICATIONS **W:** www.nvirosense.com

NEW: The NviroSense NSS450 Series now offers a range of additional sensor options available via expansion port. For more details, visit the EUCAstore