SECURE, SCALABLE WIRELESS SENSORS FOR LONG RANGE IOT APPLICATIONS

NviroSense's NSS600 is a **long range LoRaWAN sensor node** leveraging the benefits of LoRaWAN. At its core, the NSS600 utilises NviroSense's field proven and reliable NviroSense hardware, providing LoRaWAN options in 868, 915, and 923 MHz frequencies, allowing users to send data and reach extremely long ranges with high interference immunity and while doing so using the least current possible. Based on the Semtech SX1276/SX1278, it offers a LoRa range up to 15 kilometers with a local 2.4 GHz connectivity option to smartphones and tablets. NSS600 works with NviroSense's NSS5000 series of LoRa/multi- wireless gateways for simple out-of-the-box integration and is compatible with third-party cloud and LoRa network ecosystem partners.

- Multi-wireless: LoRaWAN (868/915/923 MHz).
- Multi-interface: 3 x Digital Input, 3 x Digital Output, 2 x Relay Output (5A@250VAC / 30VDC), 2 x 0~20mA Analog Input, 2 x 0~30V Analog Input.
- Harsh Environments: Robust IP66 enclosure to serve many varied installation needs.
- Integrated out of the box networks: Default configuration with NviroSense's NSS5000 gateways for simple, out-of-the-box cloud connectivity.



KEY SPECIFICATIONS

| Category | Feature | Specification |
|------------|--------------------|--|
| Chipset | LoRa | Semtech SX1276/SX1278 |
| LoRa | Frequencies | 868MHz, 915MHz, 923MHz |
| Interfaces | Interfaces | 3 x Digital Input 3 x Digital Output 2 x Relay Output (5A@250VAC / 30VDC) 2 x 0~20mA Analog Input 2 x 0~30V Analog Input |
| Antenna | Integrated | Custom NS antenna for 868, 915, or 923MHz Ceramic chip antenna for 2.4GHz |
| Power | Battery | 4000mAh Li/SOCI2 Battery as well as a Super Capacitor - non-rechargeable |
| Software | Web Application | NviroSense for Environmental Monitoring: Onsite, Cloud, Hybrid Multi-site or API Monitoring, Reporting & Control |
| | Mobile application | Android and iOS - Remote sensor display and config + firmware updates |

| Storage | Memory | High-speed embedded memories (192 Kb of Flash program memory, 6 Kb of data EEPROM and 20 Kb of RAM) plus an extensive range of enhanced I/Os and peripherals |
|---------------|--------------------------|---|
| LED | Status | 3 - status indicators |
| Button | User Input | Multi-use |
| Physical | Dimensions | 80mm x 65mm x 50mm |
| Environmental | Operating Temperature | -40 ~ 85°C |
| Warranty | Time-period | One-year |

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.



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





SMART BUILDINGS & HOME AUTOMATION





SMART AGRICULTURE

E: <u>support@nvirosense.com</u>



INDUSTRIAL & LOGISTICAL 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**