

Nubo Sphere

Application Note

IT security for sensor node (LTE MOx) and wind meter

Version 1.0 from August 16, 2022

IT security

Sensirion has placed usability and security at the forefront of the Nubo Sphere sensor node. While continuously monitoring methane emissions, each device is securely provisioned and transmits using industry-standard "Transport Layer Security (TLS)".

All sensor measurements onboard are encrypted in transit and the data at rest is controlled by tokenized authentication requiring multi-factor authentication. Microsoft Azure is the hosting cloud provider for Nubo Sphere and offers robust security, privacy, and compliance measures along with instantly scalable storage and processing capabilities.

In addition to that our personnel are trained in security, privacy, and compliance matters and regularly security testing on the cloud platforms is regularly carried out.

The sensor data in the cloud is processed with our proprietary algorithm to analyze multiple sensor outputs and perform event classification from our secure, segmented data lake.

The processed data can be shared via web portal or API requiring tokenized User authentication from Microsoft's trusted identity provider Azure AD B2C.

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