

OY1700 LoRaWAN Particles meter

LoRaWAN sensor that measures **temperature, humidity and particles**, in indoor environments. Easy to use, configurable over the air and stylish in design to fit into indoor spaces.

Typical use cases:

Indoor climate control

School buildings, office spaces, living spaces



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Technical specification

Operating principle

Laser scattering Yes

Accuracy and range

Temperature accuracy $\pm 0,2$ °C (conditions 0 °C to +50 °C)

Temperature range -20 °C to +60 °C

Humidity accuracy $\pm 2\%$ (conditions 10-90% RH)

Humidity range 0% to 100% non-condensing

Particulate matters ranges PM_{1.0}, PM_{2.5}, PM₁₀

Accuracy of $\pm 0,1$ °C and $\pm 1,5\%$ humidity available upon request

Connectivity

Network LoRaWAN

Frequency bands 868 MHz

Provisioning Over the air & personalization

Size

Size 111 x 77 x 26 mm

Weight 75g

Security

Algorithms AES-128

Hardware Cryptographic co-processor

Features Secure boot

Secure firmware upgrade

Hardware based ultra secure key storage

Power

Power source AC, 24V or USB powered

Configuration

Measurement intervals 15 minutes, configurable over the air

Transmission intervals 15 minutes, configurable over the air

Unique App EUI available upon request

Enclosure

IP30

Certifications

RoHS compliant

CE

LoRaWAN