

Description

NivelWatcher 02 is a battery-operated, flexible and configurable fill level sensor. It is a low power consumption device that measures the distance from the device to the surface of the stored product (both solid and liquids), and sends measurements using Sigfox, LoRaWAN® or NB-IoT communication technologies. The frequency of measurements and communications are configurable by the user.

Applications

Liquid level monitoring (fixed or portable tanks):

- Fuel - Oil, Kerosene, Diesel
- Lubricants
- AdBlue
- Waste oil

Bulk solids level monitoring in silos.



Technical

Name:	NivelWatcher 02
Model:	NW02
Power supply:	Compliance with IEC EN 60086-4 safety standard
Battery:	3.6V @ 6000 mAh Li- SOCL2 type
Temperature range:	-10 °C a 60 °C
Battery Life:	1 sending per day > 5 years 48 sending per day 3.6 years
Communications:	Sigfox (Zones RC1 & RC3c) - Class 0 LoRaWAN® Cellular NB-IoT
Accuracy:	± 1 cm (Tank mode) / 1% (Level Mode)
Environmental Protection:	IP67
Others:	Turn on/off and manual reset through a magnet

Features

Two working modes
Two sampling schedule modes
Accuracy ± 1 cm (Tank mode) 1 % (Level mode)
Temperature range from -10 °C to 60 °C
Battery life > 5 years
IP67
CE compliance
REACH compliance
RoHS
ATEX version (Class I Zone 0 AEx ia IIB T4 Ga)

Working modes / Sampling Schedule modes

NivelWatcher 02 has different working modes, depending on the application requirements. Its measurement range extends from 20cm to 400cm. Two sampling modes, periodic and calendar, can be configured remotely by the user.

- Periodic sampling mode from 10 minutes to 24 hours
- Calendar sampling mode: selectable wake-up hours from 0 to 23h each day

Dimensions:	141,64mm (h), 81,58mm (ø)
Weight:	150 g
Ingress protection code (IP):	IP67 according to norm ANSI-IEC 60529 (EN 60529)

Diseño de anacarrera	Revisado por Óscar Gómez	Aprobado por	Escala 1 : 0,9	Fecha 21/04/2025	
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