

LoRaWAN™ wireless sensor

- Temperature sensor
- Relative Humidity sensor
- Light sensor *
- Infrared sensor *
- Magnet sensor (hall sensor)
- Accelerometer
- Airpressure sensor **
- Digital input
- Analogue input
- NFC for configuration
- Can be used in The Things Network, local LoRaWAN network or private LoRaWAN networks

Versions

- Transparent cover in case light sensor will be used, including Lithium battery
- Transparent cover and integrated solar panel and chargeable Lithium battery
- Non-transparent cover and Lithium battery



DA1801B



DA1802B



DA1803B

- DA1801B** LoRaWAN sensor, transparent cover
- DA1802B** LoRaWAN sensor, with solar panel
- DA1803B** LoRaWAN sensor, non-transparent cover
- DA18M** Magnet for activating the internal Hall-sensor
- DA18W** Gland M8x1 for DA18xx
- DA18LIAA** Replaceable Li-battery for DA18xx

*Light sensor will need version with transparent cover
 **Airpressure sensor only will work properly with opening in enclosure

LoRaWAN™ wireless sensor family Specifications

Temperature sensor

Range: -20 to 75°C
 Accuracy: ±1°C
 Resolution: 0.1°C

Relative Humidity sensor

Range: 10 to 90%
 Accuracy: ±3.5%

Airpressure sensor

Range: 300 to 1100 mbar
 Accuracy: ±1mbar

Magnet sensor

Hall sensor

Accelerometer

± 2G XYZ

Digital input

For potential free contact, to be connected to terminal block

Analogue input

Range: 0 tot 12 V
 Resolution: 12bits (0,003 V)
 On request 0 - 20 mA (available for volumes)
 Terminal block

Battery

3.6V AA Lithium replaceable (10 year, dependent on interval)
 3.2V AA LiFePo4 rechargeable (DA1802B with solar panel)

Range

Up to 8 km (LoRa™ modulation SF12)

Dimensions

95 x 60 x 35 mm

Enclosure

IP67

Operation temperature

-20 tot 75°C

LoRaWAN Zone

EU 863-870



LoRaWAN™ wireless sensor

This LoRaWAN node can be used on The Things Network, local available LoRaWAN networks like Proximus in Belgium and KPN in The Netherlands and also in Private LoRaWAN networks.

Configuration can be done with an Android phone with NFC after an App is installed.

This app can be found on: https://play.google.com/store/apps/details?id=com.alflex_technologies.Irn_remote

You also can find this app after entering the search phrase 'lora remote' in the Google Play store.

With this App you can configure 'Measure interval', 'Ack interval' and 'Number of retries' and change the LoRa-keys. New firmware also can be loaded with this app.

The Android-phone need to have the NFC option.

The DA18xx-node has 1x digital input and 1x analogue input and can be connected on the screw-terminals.

Pin

+	vBat	
1	analogue input	max 12.9V, resolution 12 bits, impedance 95kOhm
2	digital input	for potential free contact to ground
-	ground	



Based on this multi-purpose node we also can quote a 'custom' version of the DA18xx with just the internal sensors you need for your project. Also the features of the digital and analogue input can be modified and we can change into 2x digital input or 2x analogue input. Please contact us with your special requests.

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