



AURORA WATER AND AIR TEMPERATURE

A wireless IoT sensor system

LoRA

PN: 1101316

ABOUT

AURORA Water and Air Temperature. The sensor has a MCU, it can handle and analyze high speed data on the module.

This module comes with IP67 enclosure and is equipped with LoRa. The LoRa Technology offers a very compelling mix of long range, low power consumption and secure data transmission. The module is configured with LoRaWAN.

PARAMETER	Min	Max
Storage temperature ⁽¹⁾	-20° C	40° C
Operating Temperature	-40° C	60° C
Supply Voltage	2.2 V	3.6 V
Input RF Level	-	10 dBm
Output RF Level	-	23 dBm
Dimension ⁽²⁾		
Length (ex. antenna)	-	100 mm
Width	-	70 mm
Depth	-	45 mm
Antenna Length ⁽³⁾	-	5 cm
Probe Cable Length		1.3 m
IP Rating	IP66	
Battery ⁽⁴⁾	2 x CR123	

RF TRANSCEIVER SPECIFICATION

PARAMETER	Min	Max
RF sensitivity 125 kHz Bandwidth	-135.5 dBm	-117.5 dBm
RF sensitivity 250 kHz Bandwidth	-133.0 dBm	-114.0 dBm
Sleep mode current	-	1.4 µA
Operating current	-	8 mA

(1) Storage temperature with lithium battery.

(2) Excludes antenna, weight and dimensions provided are after assembly with AURORA XDLSN3 mainboard and enclosure.

(3) The length of the antenna may vary. For max gain, the antenna can be up to 15 cm in length.

(4) The module uses 2 x CR123 (3100 mA). The battery life is depended number of measurements per hour, range to the LoRaWAN gateway, temperature and battery self-discharge (typical 1-2% per year).