



AURORA – CAPACITIVE

PN: 1101247

A wireless IoT sensor system

ABOUT

CAPACITIVE contains an array of sensor elements, able to detect the capacitive parameters of adjacent mediums. This allows you to programmatically detect and distinguish between different types of fluids and mediums and determine at what position on the sensing rod they are located. This information can be transferred wireless, for real-time monitoring.

Possible application areas include

- Agriculture
 - Detection of multi-depth humidity levels in the soil
- Drainage maintenance
 - Water and sand level measurement under the manholes
- Fluid Level Detection
 - Various types of fluid level detection, including distinguishing between different fluid types

Connectivity

The module can be configured with SMARTMESH IP, Sigfox, LoRa or NBloT radio mainboard.

Configurator Environment

The unit can be configured Over-the-Air using the Vicotee AURORA Configurator software.

GENERAL SPECIFICATION

PARAMETER	Min	Max
Storage temperature ⁽¹⁾	-20° C	40° C
Operating Temperature	5° C	60° C
Supply Voltage	2.2 V	3.6 V
IP Rating	IP68 (IP67 for transceiver)	
Battery Life ⁽²⁾		10 years
Input RF Level	-	10 dBm
Output RF Level	-	14 dBm
Measurement range	1 cm	53 cm



Specifications and information herein are subject to change without notice.

(1) Storage temperature with lithium battery.
 (2) The sensor is equipped with CR123 (1550 mA). The battery life is depended number of measurements per hour, type of radio, range to gateway, temperature and battery self-discharge (typical 1-2% per year).