

# EQP Water TDS Monitor

Equilibrium Point IoT, Inc.

## 1.0 FEATURES

- Integrated on the EQPIOT platform, powered by AWS
- Detects the state of color indicating bulbs, common in water purity and treatment systems
- Sends status and alerts to EQPIOT platform

## 2.0 GENERAL DESCRIPTION

The EQP Water TDS Monitor is a compact, reliable sensor that readily interfaces with existing color indicator systems. The minimally invasive design enables attachment to a wide range of indicator bulbs. The color of the indicator bulbs is monitored with a photosensitive element, and the status of the bulb is transmitted to the gateway over the secure, local EQP sensor network. Real time notification permits rapid response to water quality issues and potential system failures, which minimizes down time, service costs, and costly malfunctions. TDS status and alerts are available 24/7 from any mobile device.

## 3.0 DEVICE CHARACTERISTICS

### Absolute Maximum Ratings <sup>(†)</sup>

Vcc (USB Supply) .....	6.5V
Storage Temperature .....	-40°C to 80°C
Operating Temperature .....	-20°C to 60°C
ESD Protection .....	>2kV
Drop Height .....	2m
Relative Humidity .....	Dew Point

† NOTICE: Stresses above those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational listings of this specification is not implied. Exposure to maximum rating conditions for extended periods may affect device reliability

**Table 1-1: DC Characteristics**

Sym	Characteristic	Min.	Typ.	Max.	Units	Conditions
Vcc	Input Voltage	4.5	5	6.5	V	USB Supply
Is	Standby Current	-	80	-	mA	-
It	Transmit Current	-	-	160	mA	-
Pd	Power Dissipation			1	W	-