EQP Liquid Level Sensor

Equilibrium Point IOT, Inc.

1.0   FEATURES

- Integrated on the EQP IOT platform, powered by AWS
- Measures liquid level height of chemical and water tanks
- Sends status and alerts to EQP IOT platform

2.0   GENERAL DESCRIPTION

The EQP Liquid Level Sensor is a compact, portable sensor that is compatible with many types of liquid tanks. A minimally invasive non contact design measures the liquid level using an ultrasonic transducer. The sensor is battery powered with expected battery life up to 1 year*. Measurements are made automatically and transmitted to the EQP gateway. This data is used to identify low chemical levels and alert through email and text.

3.0   DEVICE CHARACTERISTICS

Absolute Maximum Ratings (†)

Storage Temperature..-40°C to 80°C

Operating Temperature ....-20°C to 60°C

ESD Protection...>2kV

Drop Height 1m

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:   Operating Characteristics

Sym	Characteristic	Min.	Typ.	Max.	Units	Conditions
Vcc	Battery Voltage	2.8	3.7	4.2	V	-
Is	Sleep Current	-	-	5.2	uA	-
Ist	Standby Current	-	80	-	mA	-
It	Transmit Current	-	-	160	mA	-
Pd	Power Dissipation	-	-	1	W	-

* Battery life is dependent on the distance from the gateway and ambient temperature