

EQP Liquid Level Industrial Sensor

Equilibrium Point IoT, Inc.

1.0 FEATURES

- Integrated on the EQPIOT platform, powered by AWS
- Measures liquid level height of chemical and water tanks
- Industrial-grade ultrasonic sensor offers the highest reliability for the most severe user environments
- Sends status and alerts to EQPIOT platform

2.0 GENERAL DESCRIPTION

The EQP Liquid Level Industrial Sensor is a compact, reliable sensor that is compatible with many types of liquid tanks. A minimally invasive non-contact design measures the liquid level using a heavy duty ultrasonic element. The industrial sensor element is resilient to harsh handling, humidity, and temperature. Up to 8 sensors may be connected to a single control box. Measurements are made automatically in 30 minute intervals and transmitted to the EQP gateway. This data is used to determine business critical metrics such as chemical usage cost margin.

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	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	Supply Voltage	-	12	-	V	-
Ist	Standby Current	-	80	-	mA	-
It	Transmit Current	-	-	160	mA	-
Pd	Power Dissipation	-	-	5	W	8 Total Sensors
Dr	Detection Range	12	-	100	cm	-