

Pipe Temperature Sensor

Equilibrium Point IOT, Inc.

1.0 FEATURES

- Integrated on the EQP IOT platform, powered by AWS
- Monitors the temperature of metal ducts and fluid pipes
- Sends status and alerts to EQP IOT platform

2.0 GENERAL DESCRIPTION

The EQP Pipe Temperature Sensor is a rugged, high performance temperature sensor that can monitor temperature over a wide range. It is powered by a USB cable or a wide range DC supply. A thermistor sensing element is mounted to the pipe with an adjustable clamp. The sensor monitors the pipe temperature and sends the data to the EQP gateway. This can alert critical equipment failures such as pipe freezing or over-temperature.

3.0 DEVICE CHARACTERISTICS

Absolute Maximum Ratings (†)

Vcc (DC Supply).....	36V
Storage Temperature.....	-40°C to 80°C
Operating Temperature	-10°C to 60°C
ESD Protection.....	>2kV
Drop Height2m
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	Input Voltage	4.5	5	6.5	V	USB Supply
		6.5	-	36	V	DC Wire Supply
Is	Standby Current	-	80	-	mA	-
It	Transmit Current	-	-	160	mA	-
Pd	Power Dissipation	-	-	1	W	-