EKM METERING INC.

Water Tank Level Sensor Spec Sheet

I. Functions and characteristics

This is an analog in-tank water level sensor that is meant to be connected to the EKM-ioStack and EKM Push3 gateway in order to monitor and act on the water level in your tank.

II. Technical Specifications

- Output leads: Yellow (Signal), Red (5VDC+), Green (Ground)
- Length of Cable: 65ft
- Measuring range: 0-1,640ft
- Size of stainless steel probe: 113x28mm
- Power supply range: 3.0V to 5.5V
- Environment temperature range: -40°C to +85°C (-40°F to +185°F)
- Fluid Temperature range: -40°C to +80°C (-40°F to +176°F)
- Compensation Temperature: -40°C to +80°C (-40°F to +176°F)
- Accuracy: 0.1% Full Scale (F.S.)
- Sensitivity temperature drift: +/- 0.03%
- Material: 316L core & rubber breathable cable
- Overload: 200% F.S.
- Long-term stability: ≤ 0.2% F.S./year
- Inherent frequency: 5kHz~650kHz

III. Installation

1. Lower the stainless probe end of the tank level sensor to the bottom of the water tank. It can rest on the bottom or be suspended above the bottom of the tank.
2. Next you will connect the three wires at the other end of the tank level sensor to the ioStack. The ioStack has four separate inputs for analog sensors (AI_1, AI_2, AI_3, and AI_4). Connect the yellow wire of the tank level sensor to one of those input terminals.
3. Connect the red wire to one of the 5v inputs.
4. Connect the green wire to one of the Gnd inputs.

If the ioStack is connected to a Push3 gateway then your tank level sensor data will now be included in the ioStack/Push3 data.

IV. ioStack/Push3 Data

1. The ioStack/Push3 data can be accessed online in your EKM Push Account Portal: **https://bit.ly/push3-portal**
2. Data can also be queried via the EKM Push APIs: **https://bit.ly/push-api-docs**
3. Data can also be visualized in the EKM Widget. This tutorial explains how to set up the EKM Widget to display ioStack sensor data: **https://bit.ly/widget-sensor**

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