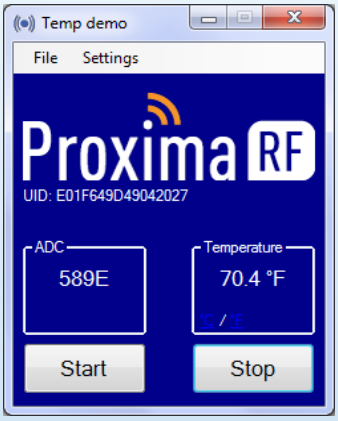
ST-KF1: Passive RFID Enabled Sensor

Factory Calibrated Temperature Sensors

The ST-KF1 temperature sensor tag provides an application ready temperature sensor for demonstrating real time temperature sensing applications. Includes a demo application for both mobile and desktop readers providing accurate temperature information at the click of a button.



When this passive RFID sensor is energized by a Proxima RF reader, the tag transmits it's unique ID and data from its sensor. This means there's no battery life limitation, making the lifetime of our sensor tags virtually limitless - perfect for solutions requiring sensors to be embedded or integrated into solutions in a way that has never before been possible.

Specifications:

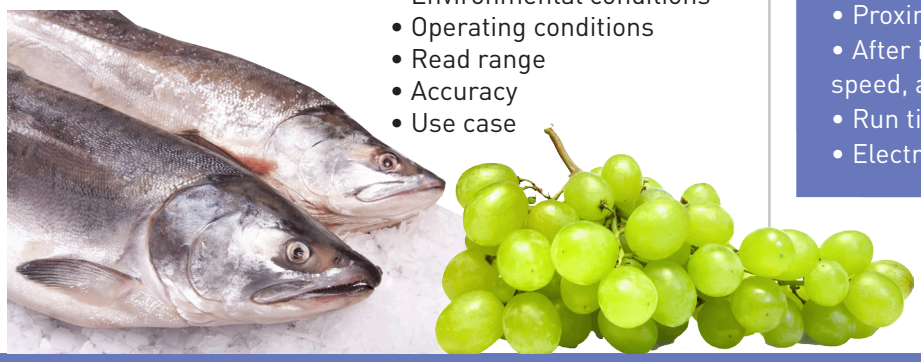
Operating Temperature	-5ºF to +160 ºF +/- 1.0 ºF (-20 ºC to +65 ºC +/- 0.5 º)
Read Range	Approximately 1"
Housing	ABS
Ruggedness	Splash Proof
RF Frequency	13.56 MHz
Regulatory	ISO15693 Compliant
Compatibility	Works with all Proxima RF readers

CUSTOM SENSORS OR DATA LOGGERS?

The standard ST-KF1 sensor may not solve your specific sensing problem and it is our goal to help develop a solution to address your unique needs.

Whether you need a tag with data logging enabled or a different resistive sensor, we can provide the sensor tags you need to expand your HF enabled sensor application from development board to pilot project and beyond. Contact us with the following information and we can discuss your custom HF enabled sensors and data loggers:

- Environmental conditions
- Operating conditions
- Read range
- Accuracy
- Use case



TYPES OF RESISTIVE SENSORS

Some potential applications for HF enabled resistive sensors include:

- Strain or force sensors that measure small movement, stretching, weight applied, etc..
- Pressure sensors for air or liquid pressure.
- Flow (liquid or gas)
- Humidity
- Electrical voltage, resistance and current.
- Tampering, tilting, breaking a seal.
- Proximity of nearby objects or linear position.
- After interface circuit design, shock, rotational speed, angular position, and light.
- Run time or when something is turned.
- Electronic switches with status info

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