IEPE
ADAPTER
(IoT HUB Accessory)

KCF technologies

YOUR MACHINES TALK.
HERE'S HOW WE LISTEN.

Bring your existing or add new integrated electronics piezo-electric (IEPE) accelerometers or dynamic pressure sensors to SMARTdiagnostics. The IEPE Adapter allows the **IoT HUB** to power and collect data from these commonly used transducers that may already be installed on your equipment. IEPE accelerometers are commonly used for route-based preventative maintenance and monitoring, however, now you can take advantage of 24/7 vibration data from these high-performance devices. The IEPE adapter can monitor a **single-axis accelerometer/transducer** and **provide up to 8 kHz measurement bandwidth,** nearly twice the frequency range of the current IoT Hub wired accelerometer (SD-WVS-1) for **EARLY ONSET DETECTION** of potential machine failures.

WHAT IS THE IoT HUB?

The SMARTdiagnostics IOT HUB is the next generation of full asset health solutions designed to handle the **MOST COMPLEX ASSET MONITORING** needs. **This includes:** triggered collections, multi-functional sensor ports, and the ability to withstand higher temperatures with external power sourcing, using the optional wired power solution. **For more information on the IoT HUB, please reach out to the KCF Technologies Team!**

KEY FEATURES:

- Integrated 4 mA constant-current source to power IEPE devices.
- Configurable sampling frequency of 125 Hz-16 kHz.
- 4096-sample memory.
- 16-bit high-performance Analog-to-Digital converter.
- Integrated 0-2.0V auxiliary analog input for IEPE devices with temperature output.
- Transducer short/open-circuit detection for easy troubleshooting.
- Internal temperature sensor.
- Operating temperature: -40 to 85°C (-40 to 185°F).
- Chemical-resistant polycarbonate alloy case with stainless steel cable entries.
- Pigtail leads to accommodate various customer installations offered, standard connectors (e.g. 2-Pin MIL-C-5015) available at time of order.

PLEASE NOTE:
Requires AC-powered Hub or +24V external power through Hub Trigger/Power port.