OEM SENSORS.COM™

Wireless Activity Timer Sensor

Technical Overview

General Description

The OEM RF Wireless Activity Timer Sensor detects vibration and times the duration of activity.

Features

- Detect machine or vehicle vibration.
- Times how long a machine or vehicle is running.

Principle of Operation

The OEM Wireless Activity Timer Sensor can be used in a host of applications that require tracking the amount of time a machine or vehicle runs. The activity timer detects operating vibration of a machine or vehicle and starts a timer. When the machine or vehicle is no longer running, the timer stops and reports the amount of time back to the monitoring system. The data is stored in the software and can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user immediately when movement is detected with the ability to only notify within time of day parameters.

OEM Sensor Core Specifications

- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4” wire antenna
- Operating Temperature: -40° to 85°C (-40° to 185°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch

* Actual range may vary depending on environment.

Applications

- Machinery Operation Monitoring.
- Pump Operation Monitoring.
- Forklift and Heavy Machinery Operation Timer.
- Vehicle Operation Timer.

Specifications	
Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 µA (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Electronics Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Channels), 868 MHz (5 Channels) and 433 MHz (15 Channels)
Sensor Power Consumption	0.25 uA continuous
Current Sink	0.00025 to 5 mA
Sensitivity	0.05g – 0.10g / 10g / 35g / 60g / 150g
Timer Resolution	Minutes
Certifications	FC CE Industry Canada 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

* Hardware can not withstand negative voltage. Please take care when connecting a power device.
** At temperatures above 100°C, it is possible to lose programmed memory.

For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at www.oemsensors.com.

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