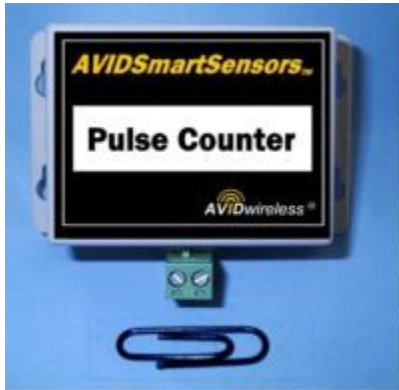


AVIDSmartSensors™ - Pulse Counter



AVIDSmartSensors Pulse Counter wireless transmitter is a battery operated digital counter with a microprocessor controlled 418 MHz. FCC certified radio transmitter. The Pulse Counter Sensor has an on board time of day clock that allows it to spend most of the time in a low power quiescent state. At predetermined time intervals the clock will wake up the onboard microprocessor. Unique serial number information is read from a Dallas Semiconductor 1-wire digital device and counter data is read from a 24-bit internal counter register. This information is combined with a CRC-16 error check and transmitted in a very short data packet that results in a transmitter on time of only 15 milliseconds. This architecture allows the Pulse Counter to consume very little energy and a battery life of 5 to 10 years results.

Main Features

- § 30-Bit unique ID with 24-bit Digital Counter and radio transmitter
- § Counts up to 60,000 pulses per minute
- § Switch for installation and service mode indication
- § Broad operating temperature range
- § Up to 600-foot range
- § Transmission rates from 10 to 17 seconds random
- § Up to 100 transmitters can coexist
- § Battery lasts from 6 to 10 years
- § Very small (1.3" X 2.1" X .6") ABS Enclosure
- § Complies with part 15 of the FCC rules
- § Water resistant coating on PCB
- § CRC-16 checked Status, ID, and counter data
- § Internal Loop antenna

AVIDSmartSensors Pulse Counter sensor electronics are coated with a conformal material that provides a moisture barrier against condensation. Submersion in water is not recommended. A pushbutton switch in the ABS cover allows the user to activate the service mode. The service switch has two functions:

1. The Pulse Counter Sensor is shipped with the transmitter turned off, anytime the Pulse Counter is to be shipped the transmitter should be turned off or placed in a shielded container to prevent interference. Start the Pulse Counter by removing the paper strip and pressing the service switch (you will feel the button click) the Pulse Counter is started.
2. The service switch is used as an aid to installation, when the service switch is pushed a data transmission occurs immediately and a special mark is introduced in the ID field of the transmitted data packet to indicate which sensor is in service or installation.

Parameter	Units
Transmission Rate	10-17 Seconds Random
Shelf Life with Battery Installed	10 Years in Quiescent Mode
Dimensions (enclosure)	1.5 W X 2.1 H X .6 D (inches)
Weight	1.5 oz.
Operating Temperature	-40° to 85° C
Input	2.8 – 5.5 vdc pulses (Up to 60,000 ppm)
Humidity	0% to 90% Non-Condensing
Battery Life with Transmission	6-10 Years with TX Period of 30-240 Seconds
Battery	3.6 volt Lithium
FCC Certified	M5ZCNT



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