



# AVIDSmartSensor™ Wireless Pulse Counter

## 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

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



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.

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