

90332

DIGITAL FM TELEMETRY SYSTEM

The 90332 digital FM telemetry systems is designed to be used with full-bridge, strain gage sensors. The system features a miniature transmitter powered by a simple 9V battery, and a remote receiver capability of receiving the digital transmission over long distances. The digital technique eliminates many of the problems associated with traditional analog frequency modulated telemetry systems. Improvements with a digital technique include elimination of ripple, temperature drift characteristics, and higher signal resolution.

The transmitter features a selectable transmission frequency for use over multiple systems. Up to 8 separate transmitters can be operated in close proximity without interference. The receiver base features a digital display, high level analog output, good data relay signal outputs, zero and span adjustments, and RS-232 serial output.

SPECIFICATIONS

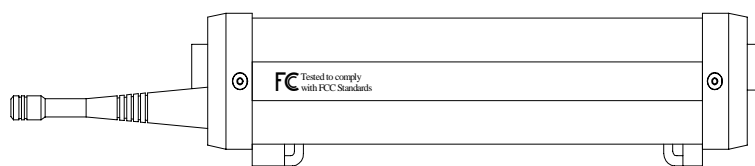
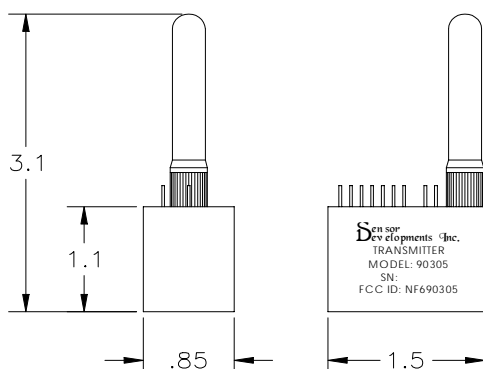
Analog Output (receiver) 0 to +/- 5Vdc
 Sample Rate 1250 samples per second
 Low Pass Filter 300Hz, 4-pole Butterworth type
 Analog to Digital Conversion 12 Bit
 Resolution +/- 2000 Counts
 Channels 1 of 8 (jumper selectable)
 Carrier Frequency 900Mhz
 Drift 0.005%/Celsius
 Minimum Bridge Impedance 350ohm
 Operating Current w/ 350ohm Bridge 30mA
 Power Requirements 7Vdc - 15Vdc
 Maximum Operating Temperature 70 deg C
 Minimum Operating Temperature 0 deg C
 Options include: encoder input
 shaft collar (model 90301)
 battery powered receiver



Standard FM System



Optional Shaft Collar



FM RECEIVER
7.9L X 6.0W X 1.8H

DWG