

Wireless Sensor Telemetry System

Series 285 Telemetry

- Non-contact measurements
- User invoked remote calibration sequence
- Integrated strain gage driver
- Remote power via battery or induction system
- Rugged weatherproof operation
- Single channel unit with selectable output filter

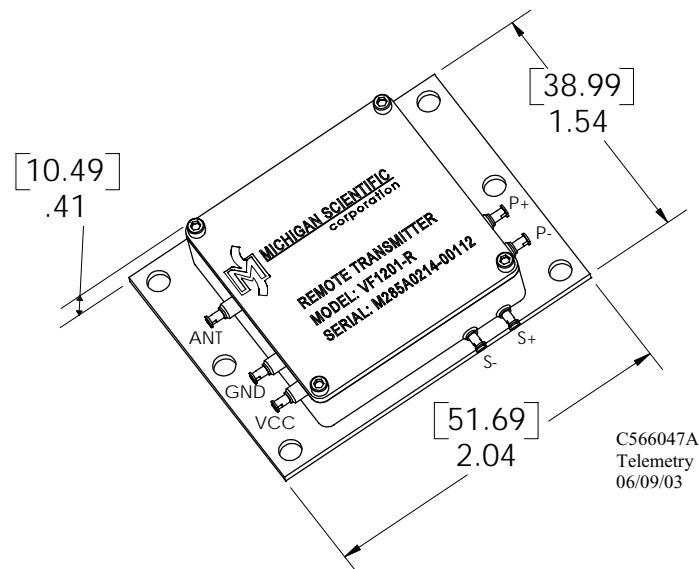


Description

Michigan Scientific's *Series 285 Wireless Sensor Telemetry System* provides a means for non-contact data acquisition in harsh conditions. The transmitter's small size and light weight allows measurements in areas with limited space and/or rotating applications.

The remote transmitter incorporates a single strain gage driver and amplifier with signal conditioning. A programmable calibration sequence is initiated on each power-up allowing measurement of both zero and shunt values. Low power consumption allows for battery or optional induction power for maintenance free operation.

The receiver provides additional signal conditioning with six selectable cutoff frequencies and a zero adjust. Output BNC connectors provide ± 10 volt analog output for direct hookup to data acquisition systems. A signal strength meter assists in system installation and monitoring



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Wireless Sensor Telemetry System

Specifications

PARAMETER	SPECIFICATION
ACCURACY	±1% of full scale
OUTPUT	
Receiver	±10V Max
Current	25mA Max
DATA BANDWIDTH	
Digital Filtering Options	20Hz, 50Hz, 100 Hz, 200 Hz, 1kHz
Analog Filter	10 Hz, 2-pole low-pass
TRANSMITTER POWER REQUIREMENTS	
Voltage	6.0 to 14.0 VDC
Current	35 mA plus Bridge Load
RECEIVER POWER REQUIREMENTS	
Voltage	11-15 VDC
Current	500 mA Max
ENVIRONMENT	
Transmitter Operation	-40°C to +125°C (-40°F to +257°F)
Receiver Operation	-40°C to +70°C (-40°F to +158°F)
MECHANICAL	
Transmitter Weight	31g (1.09 oz)



Flex Plate Induction Power



Receiver

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