

WIRELESS REMOTE MONITORING SYSTEM

THE EFFICIENT SOLUTION FOR WIRELESS MEASUREMENTS



Various Model 2060D Transmitters shown with Model 3025 Eight-Slot Receiver Mainframe.

Telemetry System Eliminates Transducer Cables

The 2060D series Transmitters can transmit most any type of sensor signal up to 4 miles- line of site (1 mile typical); eliminating long cable runs. The Transmitter is housed in a weatherproof NEMA 4X enclosure for outdoor use and supplies excitation to the sensor. Operating from either internal rechargeable batteries or external DC power source, data can be transferred over a 2.4GHz spread spectrum band up to 300 updates/chn/sec. The 3024 Mainframe, with up to four 3022D-M4 Receiver Modules, can monitor up to 16 Channels. The 3025 with up to eight 3022D-M4 Receiver Modules can monitor up to 32 Channels. As many as 16 separate Transmitters may be used in the same vicinity. Continuous analog outputs per channel are provided.

APPLICATIONS

- Wireless Crane Scales
- Bridge (Strain) Monitoring

FEATURES

- Eliminates Long Cable Runs (up to 10km).
- Immune to Electro-magnetic Interference.
- Extremely rugged.
- Built-in Signal Conditioning
- Up to 32 Channels
- Single Channel Systems Available
- Remote ON/OFF Transmitter Activation
 - Activated from Receiver
- Remote Auto Zero – Activated from Receiver
- Remote Shunt Cal Activation
 - Activated from Receiver (Strain Transmitters only)
- Transmitter battery low indication at Receiver

Specifications

RECEIVERS: (ALL)

Power..... 115 / 230 VAC
 or 12 VDC
 Output..... ± 2 , ± 5 , ± 10 , 0-2, 0-5,
 0-10VDC, or 4-20mA
 Display..... 3½ Digit LCD
 Resolution..... 14 Bit
 Output Ripple..... < 2 mV (Filtered)
 < 15 mV (Wide Band)
 Data Sampling..... 300 S/s/Channel
 Integral Non-Linearity..... +/- .10%
 Repeatability..... +/- .05%
 Maximum Error..... <.25% Full Scale

TRANSMITTERS: (2060D, 2061D, 2063D)

Power Internal Rechargeable Battery
 Pack or External 9 DC Volt Supply
 Modulation..... 2.4GHz Frequency Hopping
 Spread spectrum
 Carrier Frequency2400 to 2483 MHz
 RF Range:.....Up to 10 km
 RF Output..... 10,000 uV/M @ 3M
 Zero Drift0.02% / Deg C
 Span Drift0.02% / Deg C
 Size..... 4.92”H x 3.14”W x 2.24”L
 Operating Temp.-40 °C to 85 °C

Transmitters:

Model	Transmitter Type	Input	Excitation	Operating Temperature Range
2060D	Strain Gage	4 arm Wheatstone Bridge (>120 ohms)	5 Volts DC	-20 to 70 Deg C
2061D	Voltage	+/- 50 mV to 10 Volts Full Scale	5 Volts DC	-20 to 70 Deg C
2062D	Thermocouple	Type J or K Thermocouples (other types available upon request), Specify Measurement Range.	--	-20 to 70 Deg C
2063D	Acceleration	Compatible with most ICP type accelerometers	1mA constant current	-20 to 70 Deg C

Receivers:

Receiver Mainframes

Model	Max Channels (Module Slots)	Size	Power
3024	16 (4)	5.5”H x 10.25”W x 12.25”D	120 Volts AC 12 Volts DC
3025	32 (8)	5.5”H x 18.5”W x 12.25”D	120 Volts AC 12 Volts DC
3026D-16 ¹	16 (4)	5.5”H x 13.5”W x 12.25”D	120 Volts AC 12 Volts DC

Receiver/Status Modules

MODEL	DESCRIPTION
3023-M4	Receiver Module compatible with all 2060D Series Transmitters. 4-Channel
3022-4S	Status Module. One required for each Receiver Module. 4-Channel
3022	Receiver Module. Compatible with 2050B and 2060B Transmitters. 1-Channel

Both the 3024 and 3025 Receiver Mainframes will accept the Model 3022 and 3023-M4 Receiver Modules. The 3026D-16 is preconfigured with receiver modules to accept up to 16 inputs.

Due to the ATi policy of on-going development, specifications may change without notice. Any modification may affect the specification of our equipment.

- Remote Calibration Option:** Terminals provided on Strain Gage Transmitters for mounting shunt calibration resistor. Positive and Negative Calibration buttons on the front panel of the Receiver cause Transmitter's shunt calibration resistor to be connected to the appropriate leg of the bridge for 15 seconds.