



TITAN WIFI Recorder

ADF16HRW-03

Wireless
Data Acquisition Recorder



Key Features:

- Wireless stand-alone recording for up to 16 channels
- High performance analog front-end with full Balance and Calibration loopback features
- Battery powered operation supported
- Interfaces with other Titan products to provide up to 128 analog channels, plus digital channels
- IMU recording supported
- Analog Sensor inputs via DB-37 connection

Applications:

- Durability & Fatigue
- Noise & Vibration Analysis
- Vehicle Dynamics
- Ride Quality Assessment
- Acoustics
- Shock

Specifications:

<i>Number of Channels</i>	16 fault-tolerant channels on a single DB37F connector
<i>Sample Rate</i>	High Speed Operation: up to 8,192 samples per second per channel (1 device) up to 2,500 samples per second per channel (3 devices) Low Speed Operation: up to 1200 samples per second per channel
<i>Resolution</i>	Utilizes 24-bit A/D converters; 16-bit exported
<i>Programmable Gain</i>	From $\pm 1/16$ to ± 512 ($\pm 32V$ Full scale input voltage maximum)
<i>Programmable Filter</i>	10 pole Linear phase tracking filter for scan rates up to 10K samples/second 8 pole Butterworth for scan rates up to 1200 samples per second
<i>Calibration Modes</i>	Resistive (RCal): $\pm 100K$ Ohms per channel (shunt calibration) Voltage (VCal): Precision positive and negative calibration voltages provided
<i>Excitation</i>	Fixed 2.048 Volts
<i>Analog Sensor Support</i>	Full Bridge resistive type - strain gauges, load cells, accelerometers, etc. Voltage Input — up to ± 32 Volts Tachometer / Totalizer (frequencies up to 7KHz) Thermocouples J, K, & T
<i>IMU</i>	Embedded support for the Lord Microstrain 3DM-GX3 Inertial Measurement Unit
<i>Recording Media</i>	64GB (non-removable)
<i>Power Requirements</i>	9-18 VDC
<i>Battery Operation</i>	Approximately 4.5 Hrs
<i>Dimensions</i>	12 cm x 10.6 cm x 3 cm (antenna not connected)