Monad Electronics

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Introduction

Proud Winner of National Award for year 2009-2010 in R&D

Monad Electronics is An ISO 9001:2008 certified company, which has over the last 13 years been involved in the business of Exporting, designing & manufacturing, Electronics Industrial products, Testing equipments , sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

We are specialized in providing consultancy for itemized engineering Test ring and Projects. We are also interested in taking - up the project development, recommending and mfg. sensing and related components, service providing in installation & commissioning.

We are in this field from last 15 years and also Exporting our products to USA, Germany, Belgium, Turkey, Australia, UAE and African countries. We have good track record of import substitute high end equipment development and supplying to leading industries and government institutes.

Monad's Wireless Torque Sensors are utilized in applications where conventional torque transducers are not practical due to high shaft speeds, vibration, and harsh environments.

These factors plays major problems for conventional foot-mounted rotary torque transducers with bearings and slip rings.

The use of Digital telemetry to transfer data makes our wireless torque sensor highly reliable and durable. Batteries or non contact Inductive power are used to provide energy to the rotating sensor and transmitter.

These technologies permit a great deal of movement between the rotating sensor and stationary loop antenna with no affect on the signal quality. Minimal alignment between the stationary and rotating components is required.

This is a precision 24-bit digital telemetry system designed specifically to measure torque on existing shafts without machine modification or precision alignment.

By mounting strain gages directly on shafts and clamping the system around the shaft, Torque measurements can be done without needing to interrupt existing shaft systems to install in-line torque transducers.

This is high accuracy digital system, digitization is done on rotation shaft itself and signal transmitted in digital form only, This is one generation ahead of analog telemetry system.

MN-TTD-55 is a customized system , supplied according to customer requirements and shaft dimension .

System Including

1. Full Bridge Metal foil Strain gauge

2. Strain gauge pasting kit

3. Digitizer cum transmitter with Receiver cum datalogger

4. Wiring and clampling material

Features :

* **24 bit resolution digital telemetry**

* **Very low noise/ very high accuracy**

* **Induction power for continuous use or rechargeable battery**

* **Analog & Digital out put at receiver**

* **Two user programmable set point out put at receiver**

* **In built data logging option at Receiver**

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SPECIFICATIONS:-

Rated Output	24 Bit Digital
Non linearity	±0.1% of RO
Non repeatability	±0.1% of RO
Hysteresis	±0.1% of RO
Safe overload	150% or Rated capacity
Power supply	In built Rechargeable Battery/ Non contact Inductive power
Sampling Rate	10-50 Samples/ Sec
Temperature shift Zero	±0.01% of RO/C
Temperature shift Span	±0.02% of Load/C
Compensated Temperature	25 to 50°C
Operating Temperature	00 to 70 °C
Insulation resistance	> 2000 MΩ
Battery Backup	> 12 Hours, when fully charged
RF link carrier frequency	2.4 GHz
RPM Sensor*	Hall effect / Optical
RPM sensor accuracy*	±1 or 8 RPM

Construction material

    Sensor   Alloy steel/ Stainless Steel

Maximum RPM   5000 (RPM Class A)
10000 (RPM Class B)
30000 (RPM Class C)

Sensor Sealing   IP65

Software:-

System comes with our Specialized Data logging software to log Torque data in MS excel format in real time with time, date and Graphs plotting facility.