

We believe **Fury Technology Ltd** makes the best non-contact rotary telemetry systems available today. Using the latest technology, our system performance, flexibility, and reliability in the harshest environments, is unapproachable by any other provider.

TTU Sensor Interfaces – Specification – **Strain Gauge**

Module Type

Miniature Size
Multi-purpose
Dual channel
Analogue input

Bridge Types

2, 3, or 4 wire
Total bridge circuit resistance up to 1000 Ohms
Excitation Current = 0 to 15mA (20mA possible)

Amplifier Performance

To customer specification
Input balanced or unbalanced
DC to 50kHz (50,000 Hz) – 2MHz possible
Input level = 1uV to 10mV (scalable to 5v)
Gain =
Linearity = >2%
Accuracy = >1%
Noise = 1uV @ full scale

Output

Digital into Fury Technology TTU controller

Operating Conditions (verified)

To customer specification
Temperature = -40C to 135C
Humidity = 95% (IP68 possible)
Vibration = Tested to spec
Shock = Tested to spec
G Load = 50,000

Other Features

Chopper calibration
Open gauge detection
Shorted gauge detection
Gauge damping
Temperature measurement

Packaging

To customer specification
Machined aluminium (or other) metal cases to suit application

Long Life

Designed for 10 year life. Pre-tested to military specifications and standards.
Very high mean time between failure (MTBF).

Radio, capacitive, magnetic, and optical systems available – all designed to work in the most aggressive environments.

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