

# Riverhawk Company



## New Dynamic Torque Meter

### Option to the RDT2100 Torque Metering System

- Captures torsional vibration during start up, steady state and transient conditions, “Real Time Torque”
- Existing Riverhawk Torque Meter System easily upgradeable
- No shut down required
- Ability to measure instantaneous dynamic torque values
- Industry grade product designed for continuous operation
- Robust, using superior strain gage technology
- Ability to measure torque at zero RPM up to full speed
- Frequency response is DC to 1,000HZ
- Full on board redundancy, two independent systems
- Works with most available couplings on the market with minor modifications, eliminating the need for coupling redesign



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# Specifications



## Sensors

Torque Sensor                      Strain Gages  
Speed Sensor                      Hall-Effect Sensor

## Dynamic Torque

Sampling                      5,000 Samples/Second  
  
Frequency Response              DC to 1,000Hz  
   1,000Hz is the 3dB Point  
   30% Signal Reduction

Output Types                      Instantaneous Torque  
   Peak-to-Peak Torque  
   Captured Positive Peak Torque  
   Captured Negative Peak Torque

## Display

Type                                      2 Lines by 40 Character VFD  
Viewing Area                      5.5" Wide by 0.5" High

## Analog Outputs

Compliance                      For Load Resistance Less Than 500 OHMS  
Actual Range                      0-25mA, Typical, Qty. (5)  
   0-10V, Typical, Qty. (1)  
Accuracy                              1%, 0.25% of Full Scale Typical

## Relay Outputs

Type                                      SPDT, Rates 5A Resistive, Qty. (1)  
   Suitable for Signal Level Switching Until They Actuate a High  
   Current Load

## Operating Power

Voltage                                      85 to 265 VAC, 50/60Hz (24 VDC Optional)  
Power Consumption                      8 Watts Maximum, Typical  
Fuse Rating                              0.5A 5mm x 20mm (Type FST, Time Lag)

## Note

- Field Wire Connectors—Pluggable Phoenix Type Connectors with Captive Wire Clamps
- Dynamic Torque Voltage Output is on BNC Connector

