

LOAD MONITORING FASTENER^{plus}

Powered by
 Transmission Dynamics®



*"The Future of
Critical Bolting"*

Do you want to be notified when a critical bolt comes loose?

Load Monitoring Fastener+® (LMF+®) is a wireless, accurate, and automatic load monitoring fastener system. The LMF+® is extremely easy to use and will allow users to continually observe and record the true tightness of fasteners, both during installation and while the assembly is in operation. Automated alerts will notify you if tension deviates from desired values.

ADVANCED TECHNOLOGY

- + Continuous monitoring of fastener tension during and after assembly
- + Set pre-defined tolerances for in-service alerts
- + Real-time, precise, and easy-to-read digital data measurements
- + Instant readings with hand-held reader, phone, or any Internet device
- + Pin-point the exact location of the problem
- + Condition monitoring for optimized performance and predictive maintenance



www.copperstate.com/services/lmf/
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LMF+® is powered by
Transmission Dynamic's
Bolt Cap Module®

INCREASE PRODUCTION



Accurate Tension

Eliminate Uncertainties Involving:

- Ultrasonic Testing
- Torque-Tension Relationship
- Nut Factors
- Torque Charts
- Wet or Dry Torquing
- Calibrated Regulators
- Torquing Patterns

Reduced Downtime

- Accurate and verified loading of all fastener assemblies
- Automated monitoring **while equipment is in operation**
- Email or text alerts when loads deviate from pre-determined ranges
- Re-torque bolts only when, and if, necessary

Increased Asset Life

- Reduced wear and leakage
- Improved fastener performance through evaluation of installation and operation data
- Data driven predictive maintenance
- Confidently optimize new equipment designs

PROVEN TECHNOLOGY • WORLD WIDE • HEAVY INDUSTRIAL APPLICATIONS



QUALITY ASSURANCE

CONFIDENCE

- **Since 2014**, LMF+® has consistently proven itself as a valuable technology for critical applications
- In operation internationally in diverse industrial applications and extremely rugged environments

DURABILITY

Resistant to:

- Extreme temperatures
- Electromagnetic interference
- Shock & vibrations IEC 61373
- Water and dust IP65/IP67
- Corrosion ASTM B117
- Fatigue

VERSATILITY

- Intuitive User Interface
- Easily manageable alert & notification settings
- Customizable data display
- Industrial IOT data analysis

ACCURACY & QUALITY

- ASTM F2482 Load-Indicating Externally Threaded Fasteners
- A2LA Accredited Laboratory
- ISO 9001:2015



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