

DATASHEET

Remote Performance Monitoring

Remote asset monitoring for trackside friction management systems

Remote Performance Monitoring

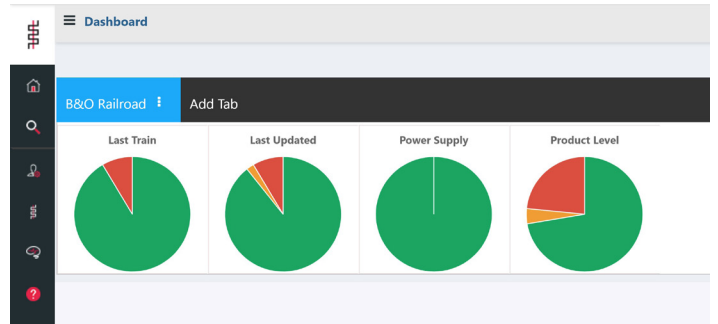
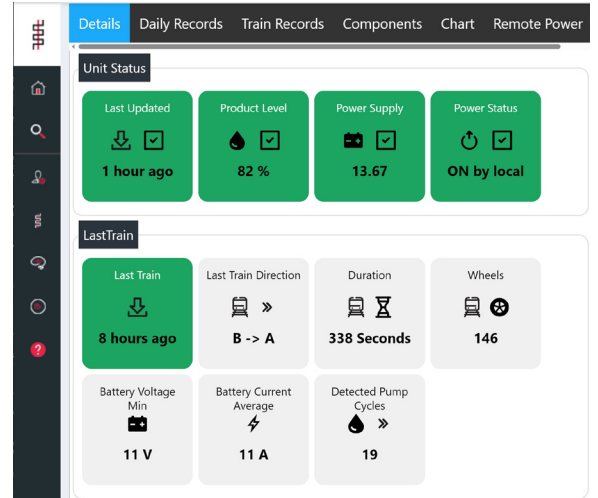
Remote asset management for trackside friction management systems

L.B. Foster’s **Remote Performance Monitoring (RPM)** system provides immediate, intuitive insight into the operation and performance of friction management assets.

Running a successful friction management (FM) program comes down to three key tenets:

- ☑ **Maximize system uptime**
 - > Don’t leave your investment sit idle
- ☑ **Optimize application rates**
 - > Too much is waste
 - > Too little reduces FM benefits
- ☑ **Minimize the cost of running the program**
 - > Optimize use of service and management resources
 - > Fewer and shorter site visits
 - > Less track access requirements
 - > Optimize spare part and consumable inventory
 - > Improve scheduling

L.B. Foster’s RPM platform is purpose-built to help you achieve these goals.

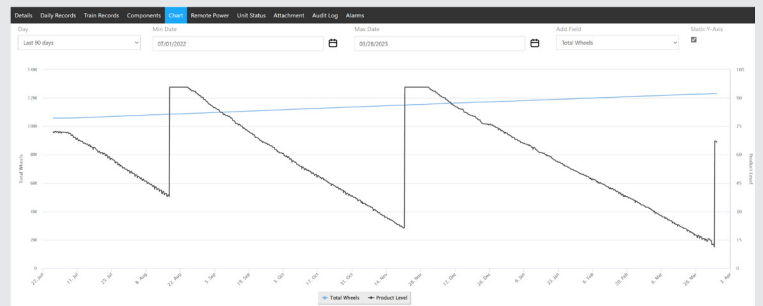


RPM delivers actionable intelligence on your FM program

RPM provides high level insight into the performance of entire territories, while allowing you to drill down and troubleshoot problems at the system level.

With RPM you can easily:

- > Check system uptime for both individual units and territory performance
- > Optimize maintenance activities and minimize track access requirements
- > Troubleshoot systems remotely
- > Turn systems on and off remotely
- > Monitor key system parameters including product levels, power levels, temperatures, product application rates, and many more
- > Be notified immediately of system alarms, problems, or key operational information



A remote monitoring system built specifically for friction management

L.B. Foster is recognized globally as the experts in railroad friction management. For decades we've been manufacturing, managing, filling, and servicing hundreds of trackside and on-board friction management application systems.

We've taken everything we know about successfully managing a FM program, and turned it into tools for you.

Accessing the power of RPM is now easier than ever

L.B. Foster is introducing the Stand-Alone RPM device, a new product capable of easily adding RPM to existing trackside application systems without the need to replace existing control systems.

The Stand-Alone RPM device is compatible with both L.B. Foster and competitor trackside systems, allowing Friction Management programs consisting of multiple equipment types to all be managed by the industry leading RPM portal.



TECHNICAL SPECIFICATIONS

		DCB2 + RPM	Stand-Alone RPM	
Interface (HMI)		Screen + 4 buttons	None	
LEDs	Power	✓	✓	
	Status and Warnings	✓	✓	
	Pump	✓	✗	
	Smart Wheel Sensor (SWS)	✓	✗	
Dual track compatible		No	Yes	
Data transmission		3G/LTE	LTE (cell variant) Iridium network (satellite variant)	
Automatic GPS Coordinates		✓	✓	
Size (without connectors)		9" x 5.5" x 4.25"	7" x 7" x 4"	
Compatible sensors	Smart Wheel Sensor	✓ (up to 2)	✓ (up to 4)	
	Product Level Sensor	✓	✓	
	Door Sensor	✓ (up to 2)	✗	
	Motor Current Sensing	✓ (internal to DCB2)	✓ (external, up to 2)	
	Battery Temperature Sensor	✓	✗	
Motor control		Yes (single motor)	No	
Input power	12 VDC nominal	✓	✓	
	24 VDC nominal	✗	✓	
Train data collected	Train end time	✓	✓	
	Train duration	✓	✓	
	# of wheels	✓	✓	
	Direction (if sufficient SWS)	✓	✓	
	Track (if dual track)	✗	✓	
	Product level	✓	✓	
System data collected	System (battery) voltage	✓	✓	
	Solar panel output voltage	✗	✓	
	Battery temperature	✓	✗	
	Pump activations	✓	✓	
	Total pump time (per direction)	✓	✓ (and per track)	
	Total wheel count (per direction)	✓	✓ (and per track)	
	Application rate settings	✓	✗	
	Motor current draw (max/avg during pumping)	✓	✓	
	Battery minimum voltage during pumping	✓	✓	
	Product and electrical door (open/closed)	✓	✗	
	Power status	✓	✗	
	System status (on/off by local/remote)	✓	✗	
	Remote power		Yes (on scheduled basis)	No
	Data transmission		LBF DLT file via FTP	JSON file to Azure IoT hub Use of TLS 1.2
Alarms	Triggered by RPM controller	✓	✓	
	Triggered by RPM web interface	✓	✓	
Mounting		Bolted to mounting plate	DIN rail mounted	

lbfooster.com

North America

+1-866-523-7245

TotalFrictionManagement@lbfooster.com

UK, Europe, Middle East, Africa

+44 (0)114 256 2225

reply@lbfooster.com

Asia Pacific

+1-412-928-3400

APACSales@lbfooster.com

China

+86 10-6462-0986

lbfbj@lbfooster.com

Latin America

+1-832-317-5072

Latam@lbfooster.com

Brazil

+55 32 3215-1034

info.br@lbfooster.com

L.B. Foster's Friction Management products are backed by market-leading experience in wheel / rail interface issues. Our team of professionals can provide the service and technical expertise necessary to achieve the optimum performance of your equipment throughout its life cycle.

For customer service, contact the appropriate office listed above.

Data provided in this bulletin is to be considered as representative of current production generally and not as specifications. While all the data presented in this bulletin is believed to be reliable and because conditions of use are beyond our control, L.B. Foster makes no representations, guarantees or warranties, expressed or implied, including but not limited to any implied warranty or fitness for a particular purpose or as to the correctness or sufficiency of data herein presented. Each user should conduct a sufficient investigation to establish the fitness of any product for its' intended purpose. No agent, representative or employee of this company is authorized to vary any of the terms of this notice.

L.B. Foster® is a trademark of the L.B. Foster Company