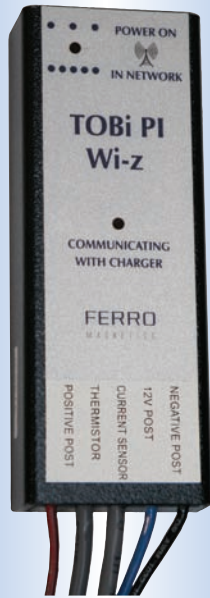


TOBI P.I. WI-z

Total On-board Battery Information – wirelessly

WIRELESS DATA TRANSFER

Automatically Downloads Data – FAST & EASY



Transmit wirelessly up to 100 feet



Installs in less than 15 minutes.
No straps to remove or shunts to weld.

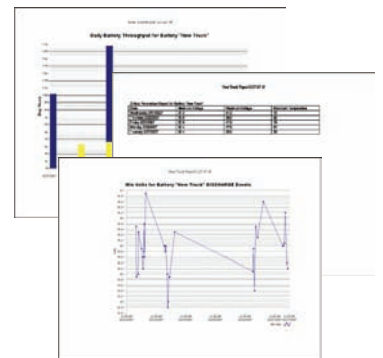
Works independently
of other wireless networks
and will not cause interference
with existing Wi-Fi networks.

Stores 4000 Previous Battery Events

- Monitor and record battery temperature ✓
- Monitor and record amp hour thru-put ✓
- Monitor and record battery voltage ✓
- Monitor and record charge/discharge cycles ✓
- Lifetime data record ✓
- Monitor and record battery idle time ✓
- Qualify opportunity/fast charge ✓

Use the TOBI WI-z with a Ferro charger with 272 control and you can:

- Temperature compensate charge.
- Charge different amp hour batteries of same DC voltage with one charger.
- Select separate charge algorithms for different batteries with one charger.



Quickly generate meaningful reports for managing your battery fleet.

Uncover battery issues **before** they become **EXPENSIVE** problems.



FERRO MAGNETICS CORPORATION
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TOBI P.I. WI-z

Total On-board Battery Information – wirelessly

Battery Monitoring and Data Recording

The TOBI WI-z allows you to monitor the usage and health of your battery on a daily basis. It captures and stores critical lifetime data which facilitates replacement budgeting and battery warranty.

- 1 Critical battery parameters are continuously monitored and recorded.
- 2 Lifetime amp-hours throughput data are recorded.
- 3 Lifetime minimum, maximum and average battery temperature is recorded.
- 4 Used as a diagnostic tool, continuous monitoring of battery events allows for accurate identification of performance issues.
- 5 The TOBI WI-z excels at identifying performance indices for an application. This allows for better asset management such as implementing opportunity charging or identifying a need for additional batteries in fleet. Armed with accurate, timely information, you can re-assign assets based on different shift demand and usage.

Battery and Charger Communication

When a charger equipped with the Ferro 272 Control is connected to a TOBI WI-z equipped battery, the 272 Control can communicate with the TOBI WI-z and battery.

- 1 Battery charge data can be stored in the TOBI WI-z and communicated to the charger so that a customized charge is delivered.
- 2 Real time battery temperature readings allow the charger to deliver a temperature compensated charge. As the battery temperature rises, the charger control automatically adjusts the output of the charger – protecting the battery from dangerous over-heating.

Battery Management System

Upgrade your TOBI PI WI-z to the full Battery Management System (BMS)

Allows for complete monitoring and management of all of your battery and charger assets.

- 1 The management system provides access to comprehensive battery usage data to authorized personnel.
- 2 Exception alerts can be emailed by the BMS system to maintenance personnel, battery specialist or whomever you authorize.
- 3 Critical battery parameters tracked and recorded by the TOBI WI-z allow you to directly monitor and react to specific performance issues.
- 4 Next available battery queue, user specified reports and battery-charger performance reports available on weekly basis.



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