

Performance Monitoring Unit



INTEGRAL
CONTROL SYSTEMS LTD.



Data Tracking

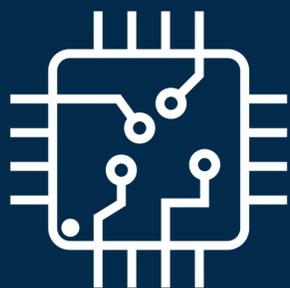


Energy Studies

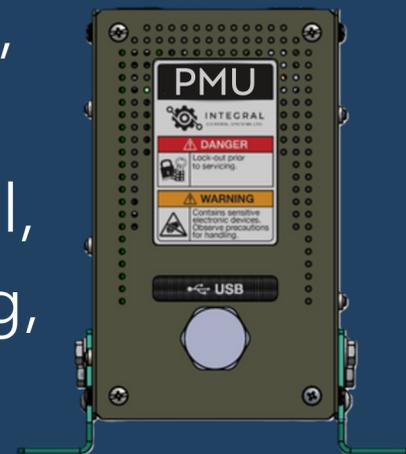


Designed for Heavy Haul Freight Rail

Preventative Maintenance



Understand the demands on your fleet with medium and long term tracking of: throttle, voltage, amperage, direction control, dynamic braking, and more.



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Performance Monitoring Unit

Key Benefits

- Compatible with nearly every locomotive model in service
- Records: system voltage, amperage per motor, throttle position, direction control, dynamic braking, fuel levels, speed, oil, and much more
- Communication link for warnings
- Adjustable polling rate
- Compact design for easy placement
- Quick and simple installation
- Data downloadable via USB
- Can store over 4 months of data (at 1Hz)
- Can connect to Wi-Tronix or other 3rd party telemetry systems

Specifications

- Cooling: integrated forced air
- Operating ambient temperature: -40°C to 70°C+
- Dimensions: ~ 8" (W) x 9" (H) x 13" (D)
- Shock and vibration: MIL-STD-810G
- Weight fully loaded: ~15lbs
- Isolated EN50155 rated internal power supply
- 10x Isolated current loop inputs
- 32x 24-74Vdc dual mode inputs
- 2x isolated RS232 inputs

Function

This device records data from a wide range of sensors, providing a comprehensive view of locomotive performance. This includes both peak demands and overall averages. All data is easily downloaded using Integral's software through the PMU's USB port, or uploaded via telemetry systems.

You can use this information to generate reports such as energy studies or set up preventative maintenance alerts. Maintenance warnings can be delivered directly to the operator or included in uploads.

Kit Includes

- PMU electronic control module
- 4Gb non-volatile FLASH memory storage
- Analog sensors, which can include: voltage, current (per motor), pressure, temperature, flow rate, volume, and more!
- locomotive interface harnesses and required cables
- Remote telemetry (optional)

Control
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