Progress Rail Inspection and Information Systems

Working in tandem with defect detection equipment, the Micro Talker monitors one or two tracks and reports real-time data to help reduce and eliminate derailments and increase overall safety.

Through a simple user interface, the versatile Micro Talker can easily be configured for site ID, mile post, digital I/O, wheel gates, track circuit, and analog input.

The Micro Talker can monitor analog voltage to report such information as ambient temperature and battery voltage.

It can monitor wind speed and direction via serial port input. Events are stamped for time and date.

The digital I/O is user definable to be normally open or normally closed without additional hardware. The digital I/O output can be used as a relay drive that can handle up to 250 milliamperes.

Economical to install and maintain, the Micro Talker upgrades easily, too. Micro Talker software upgrades can be downloaded via a computer connected to the Micro Talker.

Micro Talker

Train and Rail Detection Reporting

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Specifications

Power Requirements
Operating voltage: 9 to 16 VDC
Operating current: <300 mA

Operating Temperature
Minimum: -40°F (-40°C)
Maximum: +158°F (+70°C)

Communications
RS-232 local port adjustable baud rate to 115k baud
RS-232 local port NULL adjustable baud rate to 115k baud
RS-232 modem port adjustable baud rate to baud

Track Interface
Digital I/O
- If defined as inputs: input can be normally closed or normally open, user definable
- If defined as outputs: can be used to drive 12-volt relays requiring 250 mA current or less

Analog A/D converter
- 0-5 volt input
- Ambient temperature battery monitoring

Wheel gates
- Differential inputs to support electric rail and will support zero-speed transducers

Track circuit input
- Input can be normally closed or normally open, user definable

Storage
- Nonvolatile memory
- With axle spacing: approx. 500 trains

Radio drive
- 1 Mbyte SRAM for train data storage
- Isolated 600 ohm output with a software controlled modulation level
- Modulation level can be preset to specific standards

Can operate with trains from
- 10 MPH (16.1 Kph) to 110 MPH (177 Kph)

Unit is FCC Part 15B Certified

Dimensions
Height: 3.5 in (8.89 cm)
Width: 8.75 in (22.23 cm)
Depth: 7.25 in (18.42 cm)

Weight
2.60 pounds (1.18 kg)

Options
Advanced transducers
Track circuit
Radio
Dragging equipment detector
Digital hot wheel detector
Car clearance detector
Ambient temperature monitor
Wind speed and direction monitor (via serial interface)
WILD interface (via special interface)

Visit us online at
www.progressrail.com

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