



## Micro Talker Train and Rail Detection Reporting

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.





## 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)

