TRAIN AND RAIL DETECTION REPORTING

Progress Rail’s Micro Talker working in tandem with defect detection equipment, the Micro Talker monitors one or two tracks and reports realtime 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)

**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)

**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

**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)