



**Ultra-Tech Enterprises, Inc.** is a specialized engineering, manufacturing and service company that provides on-board and portable testing equipment for public and private railways, transit operating authorities and railcar builders.

As the innovators of testing equipment, we are continually creating answers for individual railroads and transit authorities. We assess each problem, design a custom solution and then share innovative technology to benefit the entire industry.



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# CAB SIGNAL MASTER™



# Cab Signal Master™

## Automatic Cab Signal Test System

### Model 15100

**C**ab Signal Master is a microprocessor-based system specially developed to test all cab signal equipment in railroad locomotives and transit cars. Programmable default settings and straightforward operation allow simple "plug it in, turn it on" operation with very little instruction.

The large easy-to-read display and weather-proof controls provide a rugged user interface. The portable tester accurately simulates both cab signal code rates and speed signals simultaneously and can measure loop current while coding. For the most experienced technicians, the test system can be configured to automate tests.

Cab Signal Master has many unique features to ensure flexibility, safety and accuracy. These include:

#### **PORTABILITY**

Cab Signal Master is completely portable and is encased in a "railroad tough" hand held carrier that is proven for the railroad environment. Its weatherproof controls provide a rugged user interface and its adjustable carrying strap eases transportability.

#### **EASY-TO-USE**

The tester features a large, easy-to-read illuminated display. The unit is not only easy to use, but features built-in help menus. With Cab Signal Master, no other tools are needed except a power source and a current loop.

#### **TECHNOLOGICALLY ADVANCED**

Cab Signal Master utilizes Duraswitch keypad technology for long-term reliability. Duraswitch's durable switch can withstand rough usage from railroad personnel and severe climatic changes. Other technological breakthroughs include an eight-bit digital general-purpose input/output port and an RS-232 serial communications port capable of interfacing with PCs and digital equipment. The RS-232 port may also be used to interface with processor based cab signal equipment and allows for complete field software upgrades. Cab Signal Master's Digital Signal Processor provides precise waveform generation too.

#### **ACCURACY**

The tester provides accurate and repeatable test results while simulating both cab signal code rates and speed signals simultaneously. Loop current is measured and displayed while coding.

#### **AUTOMATED**

For the most experienced technicians, the test system can be configured to automate each test. A specialized interface input may be connected to any on-board cab signal equipment for automated detection.

#### **FLEXIBILITY**

The tester features two measuring inputs, AC or DC, and has a wide range input power source, 30VDC to 90VDC. For even greater flexibility, it has three different modes of operation—factory, customer, or user defaults for testing efficiency.



## Model 15100

**Simple – Rugged – Reliable**

- **Real time output loop current measurement during code rates.**
- **Output signals adjusted using a rotary encoder or up/down buttons.**
- **Code rate output signal can be adjusted at .001 amp increments.**

**When Accuracy Is Crucial,  
CAB SIGNAL MASTER  
Is The Answer**

***Cab Signal Master is all the cab signal testing you need to ensure accurate speed detection. Count on smooth railway operation with this stand-alone tester that provides the most flexible means of cab signal testing available today.***