

# AP4118 Rail Tag Programmer

## Features

- ▶ Programmer reads data from and writes data to sealed Super eGo® tags via radio frequency signal.
- ▶ Users may selectively program tag page data fields according to their specific coding formats.
- ▶ Tag programmer functions include frame programming and data frame interrogation.
- ▶ Tag programmer can read Association of American Railroads and American Trucking Associations data from existing rail tags.
- ▶ Tag programmer uses audio/visual indicators to indicate the status of its operations.
- ▶ Security features are incorporated into the programmer to prevent unauthorized use.
- ▶ Personal computer interface via RS-232 communications port
- ▶ User-friendly tag programming software



The AP4118 Rail Tag Programmer is used to program TransCore AT5118 Rail Tags, which use Super eGo® protocol. Programming occurs via a radio frequency (RF) signal. Tag programmer functions include programming permissible tag data pages and interrogating permissible data pages. Tag data pages can be easily programmed.

The AP4118 Rail Tag Programmer connects to a host computer system using an RS-232 communications port.

Transferring programmed data to the tag requires a few simple steps. The user inserts a tag into the tag holder, downloads or manually enters the tag data into the host system, then issues a command to the AP4118 Rail Tag Programmer to write the data to the tag. The tag programmer automatically verifies data programmed into the tag.

The user can also read data previously written to the tag. With the tag inserted in the tag holder, the user issues a tag read command to the programmer via the host computer. The AP4118 Rail Tag Programmer then reads the tag and transfers the tag's data back to the host computer.

This programmer can also read Association of American Railroads (AAR) and American Trucking Associations (ATA) data from existing rail tags.

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## COMMUNICATIONS

### Interconnect Cable

Single RS-232 (data terminal equipment) host computer-to-programmer cable

## HARDWARE FEATURES

### Visual Indicators

The AP4118 Rail Tag Programmer provides one red and four green LEDs on the top surface of the tag programmer to indicate current programmer status. The LEDs respond as shown in the table below.

## POWER REQUIREMENTS

### Input Voltage

12V DC

### Power Consumption

12 W

### RF Power

Tag holder: 50 mW

### Dimensions

14.3 x 3.2 x 11.5 in. (36.3 x 8.1 x 29.2 cm)

### Weight

6.8 lb (3.1 kg)

## ENVIRONMENTAL

### Operating Temperature

32°F to 122°F (0°C to 50°C)

### Storage Temperature

-4°F to 185°F (-20°C to 85°C)

### Humidity

95% noncondensing @77°F to 122°F (25°C to 50°C)

### Enclosure

Dustproof

### Operational Vibration

1.04 G<sub>rms</sub>, 5-500 Hz, power spectral density-uniform 0.0022 G<sup>2</sup>/Hz, 1 hour per axis

### Shock

4 G<sub>zero-to-peak</sub> by 11-ms half-sine duration in all 3 axes

## ISO, AAR, ANSI, ATA AND IATA

### COMPATIBLE CODING

The AP4118 Rail Tag Programmer can code tag data formats compatible with RFID standards developed by the International Organization for Standardization (ISO), the American National Standards Institute, the AAR, ATA, and the International Air Transport Association.

### LICENSING

Meets the limits established by the Federal Communications Commission for a Class A computing device, site license not required.

## COMPLIANCE

### RF Interference

Units have been tested and are verified to Part 15 of the FCC rules for a Class A digital device.

### ACCESSORY KIT

Accessory kit containing anti-static wrist strap, 12V DC power supply and power cord, and DB9 interface cable is included with tag programmer.

Condition	LED	Description
PROGRAM	Green	A tag is being programmed with user-specified data.
VERIFY	Green	The programmer reads valid data from the specified tag frame.
ERROR	Red	The programmer detects an error in the programming or verifying process or during other operations.
POWER	Green	Power is being supplied to the programmer.
READY	Green	The programmer is ready to accept commands from the host system.

For more information:

Call **800.923.4824** (Sales Support) **505.856.8007** (Technical Support)

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411855-007 - 06/16

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