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.
# AP4118 Rail Tag Programmer

## 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)

### 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 G²/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**

- **LICENSING**
- **COMPLIANCE**
- **RF Interference**

- **ACCESSORY KIT**

### Condition LED Description

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