

# TSCU

## TRUE SPEED CALIBRATION UNIT



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PIN 1020050000

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The True Speed Calibration Unit (TSCU) is a module that is inserted between the axle speed pickup and the locomotive speed indicator (or other equipment). The TSCU utilizes The Global Positioning System (GPS) signals to generate a true speed signal to generate a correction factor that automatically corrects the speed indicator signal to yield correct speed indication regardless of wheel wear.

The GPS signals don't need to be present at all times to obtain an accurate signal. The GPS signal is used to calculate a correction factor. This data is stored in a memory and used until the next calculation.

## PRODUCT OVERVIEW

<b>Input supply</b>	45 to 120Vdc
<b>Backup Time in Power outage</b>	10 seconds
<b>Input pulse maximum frequency</b>	4kHz
<b>40 or 42 po Wheel Size Selection</b>	
<b>Output Pulse Voltage Selection</b>	5V, 10V and 15V
<b>Operating Temperature</b>	-40 to +70°C
<b>Shock</b>	±80g any axis
<b>Input Pulse Minimum Voltage</b>	±1.0Vpp
<b>Input Pulse Maximum Voltage</b>	±15Vpp
<b>Radio</b>	
<b>Frequency</b>	2.4GHz
<b>Sensibility</b>	-100 dBm
<b>Output Power</b>	3 dBm
<b>GPS</b>	
<b>Sensibility</b>	-161 dBm
<b>Maximum Acquisition Time</b>	26 seconds
<b>CPU</b>	
<b>Frequency</b>	32 MHz
<b>Flash</b>	32K
<b>Ram</b>	10K
<b>External Memory</b>	256K

[www.ekyrail.com](http://www.ekyrail.com)

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