

TC-31A Truck Entrance Automatic Warning System

What is a TC-31A System?

A TC-31A is an automated version of the TC-31 sign. These signs warn drivers when a slow moving truck is exiting or entering a roadside work zone, allowing them to slow down or move over to make room. The standard TC-31 sign has been found to be very ineffective due to the infrequency of trucks exiting a work zone – drivers get used to the sign and begin ignoring it.

The TC-31A adds vehicle detection at the truck exit as well as wireless activation of warning beacons at the sign itself. The sign is also accompanied by a “*When Flashing*” sign so that drivers know that the system is remotely activated – this improvement has been found to be incredibly effective.

The system is designed such that upon activation, the flashing lights will blink with an MUTCD 50/50 wig-wag pattern for 1 minute.

Part of a Smart Work Zone

The TC-31A sign is part of the OTM Book 7 standard and is regularly called on for roadway construction sites. As part of our Smart Work Zone initiative, we have added even more intelligence to this sign system with the integration of cellular communications – this allows for remote monitoring and logging of the system’s performance.

What’s Involved with Deployment?

We have designed a very durable and user-friendly platform to deploy TC-31A units. There are two components to these systems:

- **Detector Station**
- **Flashing Station**

The Detector Station is placed at the truck exiting area of the work zone, while the Flashing Station is placed 500 – 1000m upstream – this allows ample time for drivers to react to the warning.

Beacon Type	12” Amber LED
Solar System	4 Season Rated, 24Hr usage
Wireless System	2.4GHz ISM
Vehicle Detection Sensor	MS Sedco TC-26B
Structure	Galvanized Steel Square Perf.

