



## DTG-1435 Digital Track and Turnout Gauge

The DTG-1435 is designed for measurement of track and turnouts and can be used for Gauge, Cant and Switch clearances.

All measured values are displayed in the onboard storage device, and can be stored and compared against pre-set tolerances. Any value out of range can be highlighted in red on the screen as an alarm. Any defect that is visually noticed by the operator can be logged using a list of predetermined errors.



### Features

- Track Gauge: -20mm to 55mm
- Cant: +/-200mm
- R & L Switch gaps up to 200mm
- Accuracy: +/- 0.3mm
- Weight: 2.4kg
- Memory Capacity: 1000 readings
- Backlit Display
- Insulated
- 24 Hour Use when fully charged

For more information, please contact the Railway Sales Department at Donfabs & Consillia

Email: [sales@consillia.com](mailto:sales@consillia.com)

### Measurement

The DTG-1435 track gauge from Donfabs & Consillia measures gauge, cant and switch gaps. The twist value of the track can also be calculated using the continuous cant readings.

All data is displayed on the measurement unit mounted on the top of the bar. The backlit display enables operation in all weather conditions and provides a clear indication of the measurement to be taken in the form of small graphical icons.

In addition to the current reading, the DTG-1435 can store and show previous readings, enabling comparisons to be made, together with the mileage the measurement was taken at. Any defects or faults that are found to be outside preset tolerances can be flagged.

### Turnouts

Turnout gaps can be measured against predetermined types stored in memory.

### User Interface

The gauge employs simple menus similar to those found on a mobile phone. Each individual menu leads to a sub-menu making required items easy to find. The unit can be customised by the user to allow the menus to suit the running order of the testing.

### Batteries

Operational time for the DTG-1435 is around 24 hours, even with the display backlight switched on. Alternatively the autonomy can be defined in the number of readings, where up to 1000 individual readings can be stored.

### Construction

The DTG-1435 is lightweight, small and easy to handle. Everything is included in the package and it is provided already set up for immediate use. A computer software package is also available for data download.

# Technical Specification

## Construction

Aluminium box section with integral display computer mounted to the top side of the bar

## Measured Parameters

Parameter	Range
Track Gauge	-20mm to +55mm
Cant	+/- 200mm
Right and Left Grooves	200mm
Accuracy of all measurements	+/- 0.3mm

## User Interface

Digital Computer  
LCD Display with Backlight (readable in direct sunlight)  
Easy Menu system  
Current and Previous display of measurement in numbers X.Xmm  
Current Time, Outside Ambient Temperature and Battery Status  
Icon display of measurement being taken  
Membrane keypad with 1-0 and control keys

## PC Download

The gauge may be used in two modes, the read only mode and the save mode. In the read only mode, all measured parameters are displayed but not stored. When in save mode, all measurements are time stamped and can be saved to the PC software for further processing and reporting

## Technical Details

Memory Capacity: 500km or 1000 turnouts

The DTG-1435 is insulated and ready to use immediately after switch on

Operation Time: When fully charged - 24 hours