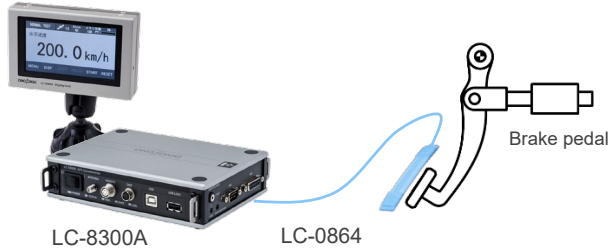


Deceleration and braking distance in braking test, drift amount measurement

Overview

It calculates evaluation indexes for braking tests such as deceleration and braking distance, and measures the amount of drift during vehicle braking.

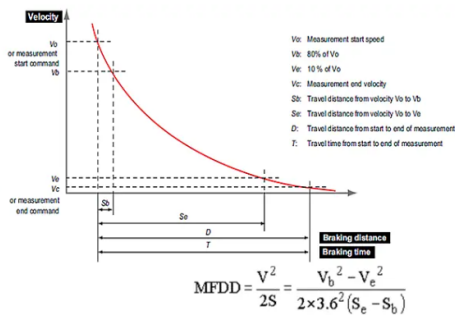


- Major measurement items:
- Mean saturation deceleration (MFDD)
 - Maximum deceleration
 - Braking distance, Corrected braking
 - Braking time
 - Drifting value

- Tests that comply with regulations can be performed
- Safe as there is no need for a person to measure with a tape measure on the proving ground

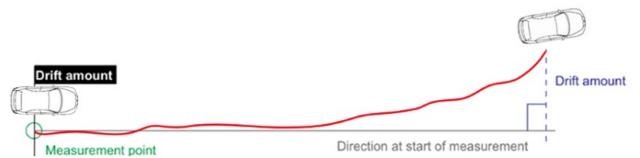
Calculation of MFDD

Conforming law
UN-ECE R13-H (Annex3 1.1.2.)
UN-ECE R13 (Annex4 1.1.2.)



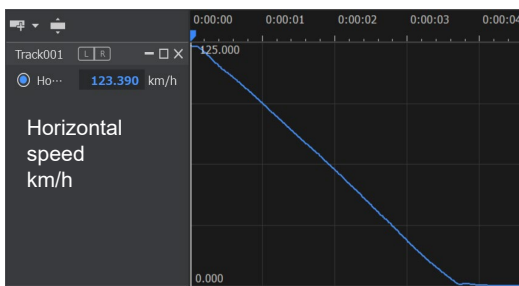
Measurement of drifting value

Conforming law
UN-ECE R13-H (Annex6 5.3.6.)
UN-ECE R13 (Annex13 5.3.6.)



Measurement results

Sudden braking (120 → 0 km/h)



Visualized and analyzed by the O-Solution

| HARD TEST | | |
|----------------------|----------------------|--|
| Mode | MFDD | |
| Date | 2023/3/11 | |
| Local Time | 15:58:47 | |
| Precision | OK | |
| H.Distance | 77.67m | |
| V:D | 7.54m/s ² | |
| MFDD | 7.949 | |
| Vb | 96.82 km/h | |
| Ve | 12.05 km/h | |
| Sb | 32.03m | |
| Se | 76.81m | |
| Corrected Calc. Mode | OFF | |

Output data of LC-0828N Hardware Brake Test function (MFDD mode)

System configuration

| Model | Product name |
|----------|--|
| LC-8300A | GPS Speedometer |
| LC-0828N | Hardware Brake Test function *1 |
| LC-0831 | Acceleration/Deceleration Test function *1 |
| LC-0833 | Orbit Display Software *2*3 |
| LC-0864 | Tape switch |

*1 LC-0828N/0831 for Braking test (MFDD)

*2 LC-0833 Necessary when measuring the drifting value

*3 The drifting value is measured in the PC Test mode. A PC is required.