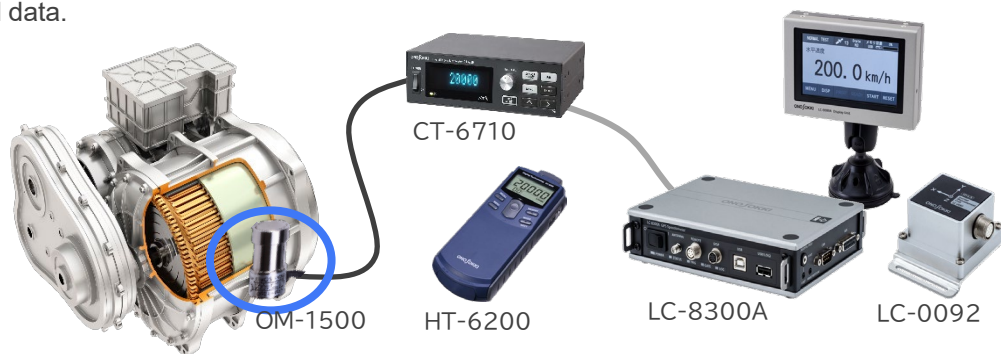


Driving performance evaluation of electric vehicles

Overview

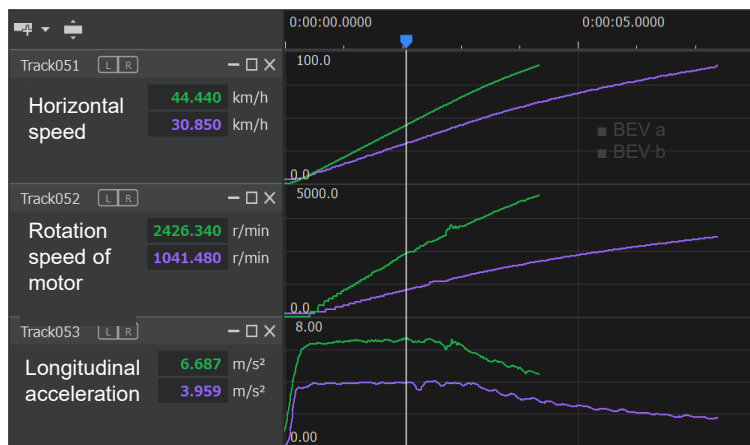
There is a lineup of various measuring instruments that measure the motor rotation speed, acceleration/deceleration G, etc., which are essential for evaluating the driving performance of electric vehicles. We provide comprehensive applications from detector selection to measurement and analysis of recorded data.



- Easy measurement simply by attaching the Motor/ engine RPM detector OM-1500 to the outer wall of the motor case
- Acceleration and angular velocity can be measured as options.

Measurement results

Sudden acceleration (0→ 90 km/h)



Velocity	Distance	Time	Δ Time	ACC
km/h	m	s	s	m/s ²
0.5	0	0	—	—
10	0.57	0.41	0.41	6.44
20	2.36	0.84	0.43	6.46
30	5.35	1.27	0.43	6.46
40	9.63	1.72	0.45	6.17
50	15.13	2.16	0.44	6.31
60	22.15	2.62	0.46	6.04
70	30.82	3.10	0.48	5.79
80	41.65	3.61	0.51	5.45
90	55.58	4.20	0.59	4.71

Output data of LC-0827 Hardware Acceleration Test function

Visualized and analyzed by the O-Solution

System configurations

Model	Product name
LC-8300A	GPS Speedometer
LC-0092	Inertial Measurement Unit (IMU)
LC-0836	IMU data Output function
LC-0827	Hardware Acceleration Test function
LC-0831	Acceleration/Deceleration Test function
LC-0866	Auxiliary input/output cable
CT-6710	Motor & Engine Tachometer
or HT-6200	Handheld Digital Tachometer
OM-1500	Motor/engine RPM detector
OS-5100	O-Solution Platform