

Door Speed / Energy

Measurement System

DoorSpeed

DS 2010-S(E)

Door Speed Tester

With USB interface and delicate figure, Door Speed Tester can be applied in the indoor and outdoor testing. The system is able to calculate speed and identify the closing status, such as fully close or incompletely close and to provide the functions of data storage for the further analysis and quality control of doors.

1 Min Installation
5 Min Complete the Test
Easy use

System Features

- With Speed / energy testing function.
- Can be applied on the conventional door, engine hood, and trunk hood.
- Automatic Identification of closing status of doors.
- Speed sensor can be attached at the door by the magnet.
- Automatic calculation of the travelling angle and displacement of the doors.
- The data can be recorded as database in the Access.
- Features with Calibrating function.
- Features with data export.

Specification

DS 2010-S(E)

SYSTEM

Power	100 ~ 240 VAC 3A	Energy Function ^(a)	Resolution: 0.01 Joule
Sampling Rate	> 1000 S/s	Positioning Angle	Resolution: 1.0 deg
Channel	3	Judge of Close Status	Fully Closed, Incompletely Closed ^(b)
Resolution	16 bit	Automatic Trigger	Yes
Interface	USB 2.0	Barcode Reader	Support
Cable Plug	TAJIMI 7-pin	Car Model	Yes
Operating Temp.	0 ~ 45°C	Result Data save	Yes
Calibration	Yes	Report Export	Yes
Speed	Resolution: 0.01 m/s	Alert	Fully Closed, Incompletely Closed, Test is done, Abnormal Operation
Angle	Resolution: 0.1 deg	Requirement	CPU:P4, RAM:1GB, HD:1GB, USB 2.0, Sound Card
Displacement	Resolution: 0.001 m	Monitor Resolution	Windows XP, VISTA, WIN 7 1280*800



Hardware



Software

(a): This function is an option and only can be applied on the rotation door.

(b): It can be applied on the rotation doors, Not include engine hood, and trunk hood.

Sensors

Measuring Range	0.3~2.5 m/sec ^(c)
Nonlinearity	<0.5 %
Temperature Affection	<5%
Scale Factor (Nominal)	10 mV/°/sec
Cable Plug	TAJIMI 7-pin
Cable	5 Meter
Installation Method	Attached by Magnet
Shock Resistance	99 G
Operating Temperature	- 40 ~ 85°C



Speed Sensor

(c): For 1.0m door length. In addition, there is another optional sensor of 0.5~4.0 m/sec.

Options

Energy Sensor			
Measuring Range	44.5 N	Zero Balance	±1% of R.O.
Nonlinearity	0.1 % of F.S.	Cable Plug	TAJIMI 7-pin
Temperature Affection	< 1%	Cable	5 Meter
Safe Overload	150% of R.O.	Operating Temperature	15 ~ 72°C
Rated Output	2 mV/V	Installation Method	Vacuum chuck with pump



Energy Sensor

Photo Sensor for Sliding Door			
Measuring Range	0.1~5.0 m/s	Diameter of Light Spot	0.6 mm
Resolution	0.01 m/s	Repetition Accuracy	5 um
Cable Plug	TAJIMI 7-pin	Response Time	50 us
Cable Length	5 Meter	Operating Temperature	- 25 ~ 60°C
Light Resource	Laser (Red)	Mounting Base & sensing lamina	sensing lamina 1cm width lamina



Photo Sensor

Calibration Accessories Specification			
Weight		Angle Calibrating Station	
Weight	3 Kg	Angle	90°
Texture	Cu & Ni Coating	Texture	Steel & Aluminum
Calibrating Report	Option	Calibrating Report	Option



Weight



Angle Calibrating Station

Options Inquiry

please select the items

	Modules	Calibration	Accessories
DS 2010-S	<input type="checkbox"/> E: Energy Module	<input type="checkbox"/> W: Weight	<input type="checkbox"/> T: Tripod
	<input type="checkbox"/> L: Sliding Module	<input type="checkbox"/> AS: Angle Calibrating Station	<input type="checkbox"/> C: Case
		<input type="checkbox"/> WCR: Weight Calibrating Report	
		<input type="checkbox"/> ACR: Angle Calibrating Report	