

HS Series

"Handy Scale" Portable Weighing Systems



Easy to use High-stability Measurement

Features of Detector

- Unique aluminum integrated structure for minimal eccentric error
- Wide platform for easy measurement with Low-profile tire
- Rubber frame for easy landing
- Cable integrated to protect connector against damage due to wheel movement
- Diaphragm on both sides improves drip and moisture proof

Features of Indicator

- Contrast-adjustable LCD screen imaging tire positions
- Operates on 100 to 240 VAC, no switchover required. Operation on 12 VDC possible with optional battery kit
- 4-channel HM04E8 provides 3 display modes of "individual wheel load," "axle load" and "%." 8-channel HM08E9 provides 2 display modes of "wheel load" and "axle load" selectable with the cursor key.
- Car No. is input and printed with the built-in printer.
- RS-232C interface
- Functions, such as a "indicated-value stable mark" and a "acceleration-due-to-gravity compensation function", are substantial.

The "Handy Scale" portable weighing system has been favorably used by automobile-related customers in Japan and abroad. The system enables easy and stable measurement of individual wheel loads, individual axle loads, subtotals of front/rear and left/right wheel and axle loads and the total, which are indispensable for weighing trucks.

Model specifications

Models	Rated Capacity	Maximum Axle Load	Minimum Graduation	System* Accuracy
HS1001NX4E8	4 t	1000 kg	1 kg	±0.2%
HS1002NAX4E8	8 t	2000 kg	2 kg	
HS1003NAX4E8	12 t	3000 kg	5 kg	
HS1005NX4E8	20 t	5000 kg	5 kg	

*System accuracy is when used at 25±10°C

Example: Under the environment of -10 to 60°C, system accuracy is 0.4%.

Standard systems

System's Models	Detector's Models	Indicator	Connection Cable
HS1001NX4E8	HS1001-N	HM04E8	HW005-40AD
HS1002NAX4E8	HS1002-NA		
HS1003NAX4E8	HS1003-NA		
HS1005NX4E8	HS1005-N		

Specifications

Performance

Rated	See table below.
Capacity	Within ±0.1% RO
Nonlinearity	Within ±0.1% RO
Hysteresis	0.1% RO or less
Rated Output	Approx. 1.0 m V/V HS1002-NA approx. 0.7 m V/V

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within ±0.01% RO/°C
Temperature Effect on Output	Within ±0.01%/°C

Electrical Characteristics

Safe Excitation	20 VDC
Recommended Excitation	1 to 10 VDC
Input Resistance	395 ±5 Ω
Output Resistance	350 ±5 Ω
Cable	4-conductor (0.3 mm ²) shielded chloroprene cable, 6 mm diameter by 20 cm long, terminated with connector plug. (25 cm long with HS1005-N)

Mechanical Properties

Safe Overloads	120%
Weight:	See table below.

Specifications of Indicator

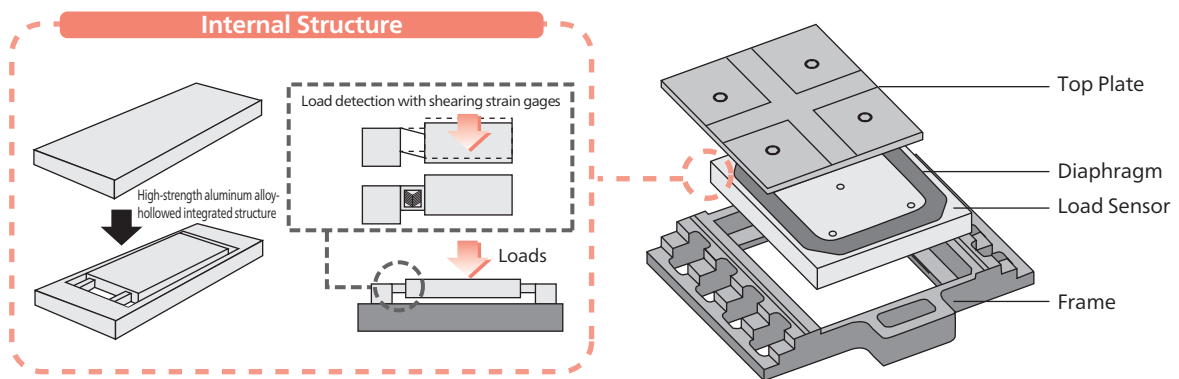
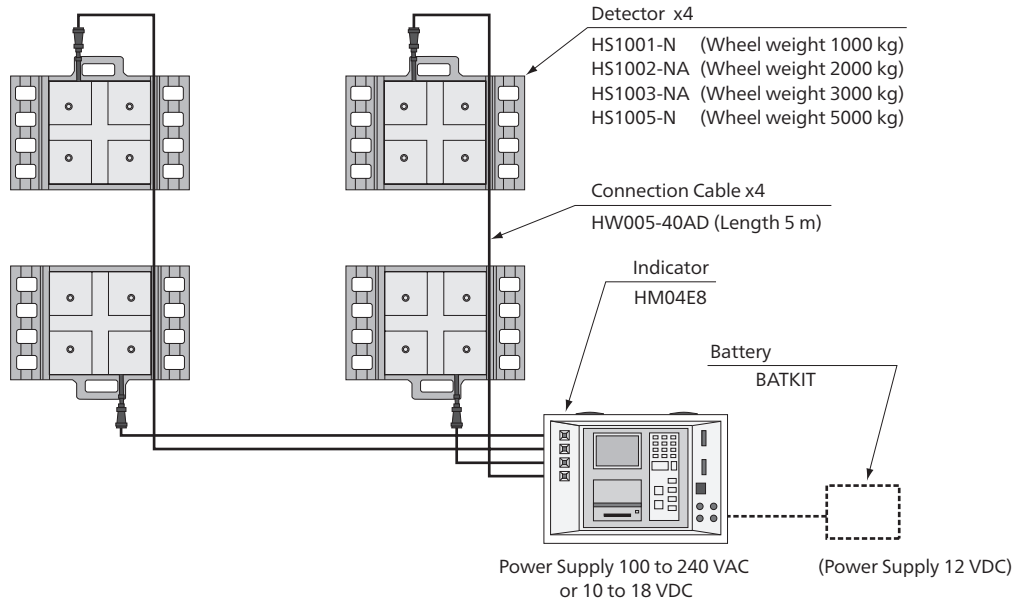
Number of Channels	See table below.
Display Contents	See table below.
Number of Display Digits	5 for each individual load, 6 for total load
Display	LCD
Operating Temperature	-10 to 40°C
Accuracy	Within ±0.03% FS
Printers	5 x 7 dots, a dot impact printer
Power Supply	100 to 240 VAC or 12 VDC*
	Power consumption 20 VA (Regular), 30 VA (When the printer operation)
Weight	Approx. 7 kg
Interfaces	RS-232C
Standard Accessories	AC power cable, printer paper, and ink ribbon

Models	Number of Channels	Display
HM04E8	4	Wheel load, axle load, left & right, total weight, ratio%, cross%
HM08E9	6, 8 switchable	Wheel load, axle load, left & right, total weight

*12 VDC Battery Kit is an Optional Accessory. (Model BATKIT)

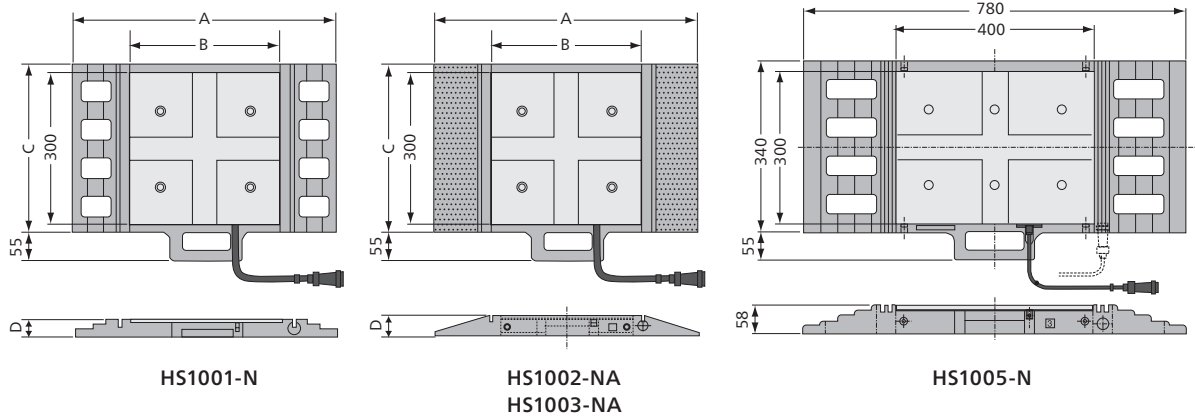


Example of Axle Load Display (HM04E8)



Dimensions

● Detector



Models	Rated Capacity	A	B	C	D	Weight (Approx.)
HS1001-N	1000 kg	520	300	330	33	8 kg
HS1002-NA	2000 kg	600			43	11 kg
HS1003-NA	3000 kg					20 kg
HS1005-N	5000 kg					

● Indicator

