

MR-800 Drive by Wire Utility Vehicle

The drive by wire electric utility vehicle from Sensible Machines is a very capable and easy to use vehicle. It has the ability to be driven either manually or under computer control. Its large payload capacity, high maneuverability and off road capabilities make it useful for a variety of tasks.

The user can control the vehicle either manually or by computer. Computer control is provided by an easy to use Ethernet interface. Manual control is provided by standard throttle, brake and steering wheel. Switching between the two is as easy as flipping a switch.



Specifications

Motor	48V separately-excited DC motor with external fan. Motor brush service life 1,500 hours
Rear Suspension	Proprietary Active In-Frame™ suspension
Front Suspension	Proprietary torsional independent “A”-Frame™ with 5" (12.7 cm) of travel at spindle.
Speed	0-16 mph (0-25.6 km/h) with fully charged batteries. Economy/supervisor mode limits speed to 12 mph (19.2 km/h)
Brakes	4-wheel hydraulic, complemented with regenerative braking
Ground Clearance	Front: 7.75" (19.7 cm). Rear: 6" (15.2 cm)
Dimensions	Width 59" (150cm) Length 117" (297 cm) Wheel Base 81" (201 cm) Height 50" (127 cm)
Turning Clearance Circle	Inside rear tire: 39" (99 cm), inside front tire: 150" (381 cm), outside rear tire: 158" (401 cm), outside front tire: 227" (577 cm)
Cargo Bed Size	Length: 49" (124 cm), Width: 52" (132 cm), Height: 10" (25 cm)

Total Capacity 1,200 lbs. (545 kg), with two 200 lbs (91 kg) passengers

Cargo Bed Capacity 800 lbs (363 kg)

Trailer Towing Capacity 400 lbs. (182 kg) trailer, 50 lbs. (23 kg) tongue weight with standard hitch.

800 lbs. (363 kg) trailer, 100 lbs. (45 kg) tongue weight with heavy-duty tow hitch

Weight (Empty) 1,500 lbs. (680 kg)

Drive by Wire Interface TCP/IP over Ethernet

Inputs:

- Steering curvature control
- Speed control
- Forward/Reverse
- Throttle
- Brake

Outputs:

- Odometry
- Speed
- Curvature
- Health
- Power
- Vehicle Specifications

Safety 4 Manual E-Stop switches plus optional wireless E-Stop

Ordering Information

SMDBWW- 0 0 0 0 0 0 - A

Wireless Estop:

0 – no wireless estop

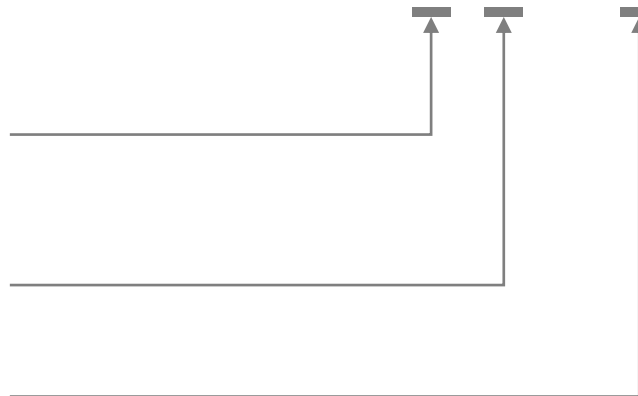
1 – wireless estop

Encoder Option:

0 – NA

1 – encoder on rear differential

Hardware Revision



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