



Mir 250

General Information

Type	Autonomous Mobile Robot (AMR)
Designed use	Internal transportation of goods, automation of internal logistics
Product design life	5 years
Standard covers color	RAL7011
ESD covers color	RAL9005
Top plate	Anodized aluminum, 5 mm

Dimensions

Length	800 mm
Width	580 mm
Height	300 mm
Weight	83 kg
Clearance from ground	25-28 mm
Wheel diameter (swivel wheel)	125 mm
Wheel diameter (drive wheel)	200 mm (conductive)
Load surface	800 mm x 580 mm



Payload

Payload max.	250 kg
Acceleration limits with payload	1,0 m/s ²

Driving and navigation

Maximum speed	2.0 m/s
Precision, docking	+/- 5 mm
Minimum width: door	Muted personnel detection means: 800 mm

Battery, charging

Charging options	MiRCharge 48V & 48V cable charger
Active operation time	10 hours
Charging time, MiRCharge 48V, 10% to 90%	1 hour

Environment

Ambient temperature, operation	+5°C to 40°C
Ambient temperature, storage	-10°C to 60°C
Humidity	10-95% non-condensing
Environment	For indoor use only
IP Class	IP21



Compliance and approvals

Safety standards for industrial vehicles	CE, EN1525 & ANSI B56.5
EMC	EN12895, EN61000-6-2 & EN61000-6-4

Connectivity, I/O

I/O connections	4 digital inputs, 4 digital outputs (GPIO), 1 Ethernet port, 1 Auxilery emergency stop
WiFi Connection	Router: 2.4 GHz and 5 GHz. Internal computer: WiFi adapter: 2.4 GHz and 5 GHz, 2 internal antennas
Wifi Protocol	Router: 2.4 GHz 802.11 g/n, 5 GHz 802.11 a/n/ac. Internal computer: 802.11 a/b/g/n/ac
Power for top modules	48 V / 10 A, 48 V Safe / 10 A

Sensors and cameras

Laser scanners	2 pcs: SICK Nanoscan3. FoV: 360°
3D camera	2 pcs: Intel RealSense D435. FoV: Detects objects 1800 mm high at a distance of 1200 mm in front of the robot. 114° total horizontal view. Ground view, minimum distance from robot: 250 mm
Proximity sensors	8 pcs