

GoPal 400 - Data Sheet



Use	
Autonomous transportation robot for loads on standard EUR pallets	
Dimensions	
Length x Width x Height	1400 x 860 x 315 mm
Lifting capabilities	160 mm
Robot weight	175 Kg
Performance	
Battery time	4 - 8 hours or ~20 km depending on load conditions
Maximum speed	2,4 m/s (8,6 km/h)
Turning radius	850 mm (from robot center)
Safety	
Laser scanners with 360° protection	
4 x emergency stop buttons	
Mechanical bumper with 360° protection	
Additional obstacle avoidance sensors	
3 x 3D camera. Two in the front and one in the back of the robot	
Electrical	
Battery	LiFePO4, 48 V, 40 Ah
Battery charge time	45 min (full charge)
Number of charges	About 5.000 charges
Charger interface	
Automatic docking interface in front of the robot	
Connector in back of the robot for manually charging	
WiFi connection	
WiFi	802.11ac
Environmental	
Operating temperature	0 – 45 °C
Humidity	max. 95 % non-condensing

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Floor requirements	
Slope average (max)	2,5 %
Friction coefficient (min)	0,6
Maximum height of obstacles	4 mm
Load	
Maximum payload	425 Kg
Length (max)	1240 mm
Width (max)	800 mm
Height (max)	2400 mm
Pallet Condition	
Undamaged, original strength maintained (grade A or B)	
User interface	
Key switch	Off: Power off robot Remote: Place robot under server control Local: Enable local WiFi hotspot for local operation Emergency: Allow break release for manually relocation
Break release	Active in emergency mode
Safety reset	Must be activated after bumper or emergency button activation
Recommended lane conditions	
Minimum lane width	120 cm
Operational lane width	200 cm
Max speed lane width (min)	300 cm

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