

HyPro® -8

Key features

Surface Mounted Joysticks (SMJ) technology allows for easy joystick exchange without opening the housing

Configurable and programmable via NBB programming tools



Applications

EOT cranes / Gantry cranes / Mobile cranes / Aerial platforms / Lift equipment / Winches / Crushers and screeners / Agriculture / Landscaping / Mining / Firefighting / Concrete pumps

Technical information

Communications	Single channel FSK
Safety	Multi bit address code with over 1 million combinations
Frequency bands	433.05 – 434.79 MHz 868 – 868.975 MHz 915 – 916.650 MHz (NA) Others available upon request
RF power	< or = 10 mW < or = 20 mW (NA)
Operating range	≤ 100 m
Antenna	Internal
Command response time	Approx. 15/60 ms typical
Low battery indication	Approximately 15 minutes
Operating time	Up to 30 hours continuous

Power supply

Power supply	2 x AA LR6 disposable alkaline or rechargeable NiMH cells
Optional power supply	2,400 mAh, 7.2 VDC NiMH rechargeable battery pack
Battery pack charging time	Approximately 1 hour
Battery pack specifications	126 x 52 x 22 mm at 0.2 Kg
Battery pack charger power supply	110-230 VAC or 12-24 VDC
Charger AC power plug options	EU, USA, JP, GB, AU

Equipment compliance

CE certification	Yes
FCC compliance	Part 15

Transmitter specifications

Housing	Impact resistant fiberglass reinforced polycarbonate
Environmental protection	IP65
Operating temperature	-20 °C to 70 °C
Dimensions	280 x 160 x 141mm
Weight	1.35 Kg (without battery)
LCD display	Programmable backlit 2.4" monochrome graphic
Display contents	Operation, diagnostics and optional machine feedback

Operator controls

Analog joysticks	Up to 8 single-axis
Joystick options	Black or red protective boots Stepped travel activation
Push buttons	Up to 2 x deck of 6 programmable momentary push buttons (12 total)
Off/On stop switch	Push/Twist to pull push button
Digital on/off functions	*Up to 20 on/off functions available via toggle switches, push buttons, rotary switches, key switch, etc.
Additional analog functions	Up to 4 analog devices such as potentiometers 1 x CAN I/O for machine control and feedback
Cable control interface	Up to 2 x on/off high side switching signals for stop

*Consult factory for available combinations

Accessories



Battery 2,400 mAh / 7.2 V



Universal-charger 110-230 VAC



Charger 12-24 VDC



Joystick with boot



Side protectors for increased safety



Carrying system with waist and neck belt

Technologies



SMJ



Proximity Detection



Teach-in



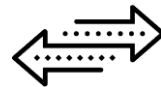
Multi-user system



NBB battery system



LBT frequency search



Data reporting



Tilt sensor