

## Nano-S

### Key features

NBB's most compact belly box transmitter

Customizable

Configurable and programmable via NBB programming tools



### Applications

EOT cranes / Gantry cranes / Mobile cranes / Lift equipment / Trailers / Tow trucks / Winches / Agriculture / Landscaping / Firefighting / Concrete pumps

### Technical information

Communications	Single channel FSK
Safety	Multi bit address code with over a 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	175 x 127 x 120 mm
Weight	0.7 Kg (without batteries)
LEDs	2 for operation and diagnostics (embedded in 5-switch deck) 1 optional programmable (only with joysticks soldered to coder board)

### Operator controls

Analog joysticks	Up to 2 single-axis (MSA1) Up to 2 dual-axis (MSA2) *Several combinations available
Joystick options	Stepped travel activation Travel limiting gates (MSA2)
Toggle switches	*Up to 11 fixed position three position maintained or momentary toggle switches
Push buttons	1 deck of 5 programmable momentary push buttons
Off/On stop switch	Push/Twist to pull push button
Digital on/off functions	*Up to 6 on/off functions available via toggle switches, push buttons, rotary switches, etc.
Additional analog functions	*Up to 3 analog devices such as a potentiometer
Cable control interface	1 x CAN I/O for machine control and feedback (only toggle switch)

\*Consult factory for available combinations

## Accessories

---



Battery 2,400 mAh / 7.2 V



Universal-charger 110-230 VAC



Charger 12-24 VDC



Waist belt



Back carrying belt

---

## Technologies

---



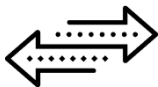
NBB battery system



Teach-in



Multi-user system



Data reporting



LBT frequency search