

## Nano-media



The Nano-media combines the compact design of the Nano-minor with the technical variance of the Nano-magna – for the greatest variety of operating and feedback possibilities in the smallest space. Can be used in numerous fields of application.

### > Operating elements

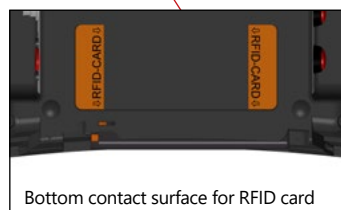
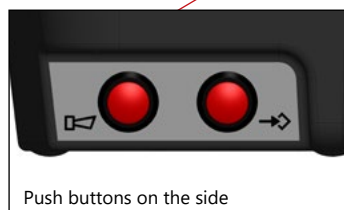
Joysticks	<ul style="list-style-type: none"> <li>– Up to 6 single-axis (MSA1)*</li> <li>– Up to 3 dual-axis (MSA2)*</li> <li>– Up to 2 three-axis (MSA3)*</li> </ul>
Joystick options	<ul style="list-style-type: none"> <li>– Stepped travel activation</li> <li>– Embedded push button (MSA2)</li> <li>– Travel limiting gates (MSA2)</li> </ul>
Digital on/off switch	Up to 24 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
Cable control interface	1 x CAN I/O for machine control and feedback

\* Consult NBB for available combinations.

Compact, ergonomic housing

4.3 inch TFT colour display  
(customer-specific programming)

Push buttons, rotary switches, potentiometers, toggle switches, key switch, etc.  
(different combinations possible)



### > Technology



SMJ



Proximity detection



Teach-in function



Multi-user system



NBB battery system



LBT frequency search



Data feedback



Inclination sensor



Radiokey

## Technical data

### Technical information

Frequency range	419 MHz, 429 MHz, 434 MHz, 868 MHz, 915 MHz, (2.4 GHz) (depending on customer requirements and country-specific regulations)
RF power	≤ 1 mW, ≤ 10 mW, ≤ 25 mW (depending on frequency range and country-specific regulations)
Typical working range	≤ 100 m (depending on environmental conditions)
Frequency channel search, automatic	LBT-Modus (Listen Before Talk) (depending on country and function configuration)
Antenna	Integrated
Typical response time of the control commands	Approx. 50 ms
LF modulation method	FSK/GFSK
Datarate	9,600 Baud (Bit/sec.) at SubGHz/250k at 2.4GHz
Ø Current consumption (depending on the expansion level)	– approx. 125 mA (with LED 7-segment display) – approx. 250 mA (with LCD display)
Prewarning time „Battery empty“	Approx. 15 minutes
Acoustic response	Integrated buzzer, customized setting
LCD/TFT display	Optional: 4.3 inch graphic TFT color display (480 x 272 px), customized illustration possible
Energy saving function (Standby)	Standard: after 60 min. Optional: Setting according to customer requirements (continuous operation possible)

### Machine data

Ambient operating temperature	-20 °C up to +70 °C
Weight	1900 g
Dimensions (L x W x H)	340 mm x 201 mm x 151 mm
Case material	Impact resistant, glass fiber reinforced polyamide
Status display (7-segment, depending on the configuration)	1x (2-digit)

### Equipment safety

CE certification	Yes
Protection class	IP65
Data security	Addressing of each transmitter by unique bit combination
EMERGENCY STOP or STOP function	Yes (sending stop telegrams for 2 sec.)

### Power supply

Power supply	NiMH battery (7.2VDC/2,400mAh), pluggable
Operating time	Up to 10 hours
Loading form	Externally, via a separate charger
Charger available for (UE)	110VAC–230VAC, 12/24VDC
Plug form AC (adapter set)	EU, USA, JP, GB, AU
Plug form DC	Car charger plug