



PRODUCT DESCRIPTION

MAIN FEATURES

NovaKit One combines premium haptics with modern design and integrates essential protection features into one powerful system. It creates the perfect foundation for seamlessly integrating your modules – making development faster, safer, and more efficient.

With its flexible and highly adaptable platform family, NovaKit makes electronic device development easier than ever before. In fact, it can even eliminate an entire step in the development cycle, giving you more time to focus on true innovation.

- › Standard-independent enclosure system
- › Ergonomic HMI-Interface
- › Bonded 7" touch display
- › High design aesthetics
- › EMC level: Basic
- › Thermal analysis on request

POSSIBLE CUSTOMIZATIONS

- Individual colour combination
- Customer-specific display front and rear panel
- Customer-specific HMI interface
- NovaKit One options of electronics

TYPICAL APPLICATIONS

- Test and measurement technology
- Sensor technology
- Medical equipment
- Testing and calibrating devices
- Optical and mechanical measuring systems

VARIETY

SIZE

- One standard size
- Other sizes available on request

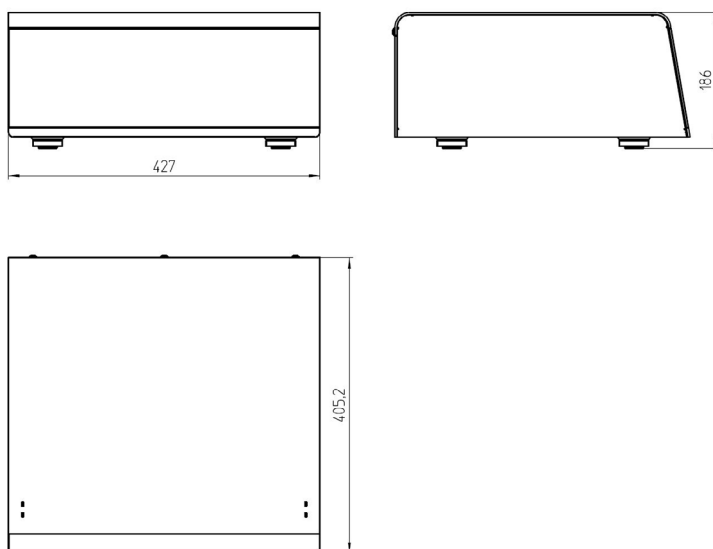
COLOR

- Standard: Combined white and silver
- Other colors available on request
- Front panel is made of glass and can be printed on

TYPES

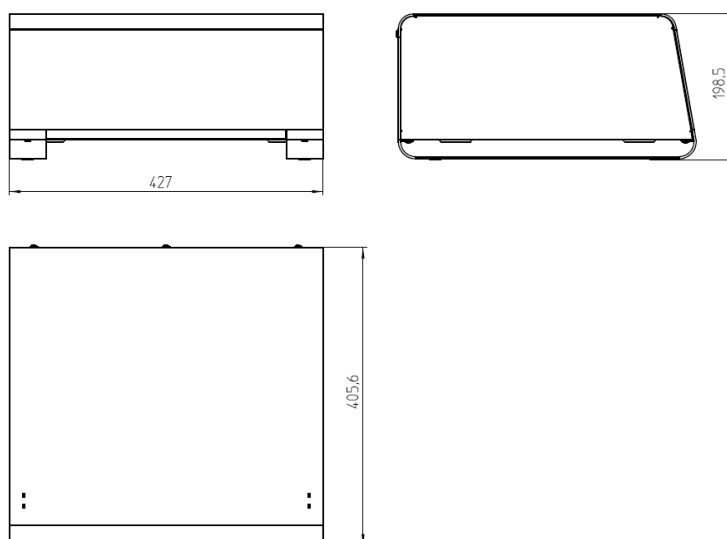
WITH STANDARD FEET

Part number: NX01-101-111-01



WITH DESIGN FEET

Part number: NX01-101-131-01



SPECIFICATIONS

Dimensions:

W 427 mm x H 186 mm x D 405.2 mm

Color:

Tray (white; RAL 9010)

Cover and bezel (silver argento 4601)

Scope of delivery:

- 1 aluminium enclosure, powder coated
- 1 glass front panel with display
- 1 rotary switch E33
- 4 standard feet
- 1 mounting plate 400 mm x 310 mm x 2 mm

SPECIFICATIONS

Dimensions:

W 427 mm x H 198.5 mm x D 405.6 mm

Color:

Tray (white; RAL 9010)

Cover and bezel (silver argento 4601)

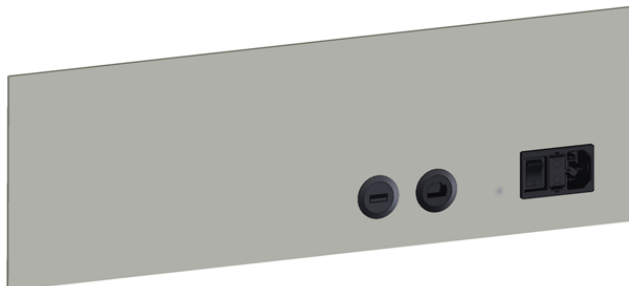
Scope of delivery:

- 1 aluminium enclosure, powder coated
- 1 glass front panel with display
- 1 rotary switch E33
- 4 design feet
- 1 mounting plate 400 mm x 310 mm x 2 mm

PRODUCT STRUCTURE

STANDARD

Part number: NX01-501-113-01



Scope of delivery:

- 1 aluminium rear panel, powder coated
- 1 EC device plug
- 1 USB service interface
- 1 RJ45 service interface
- 3 screws

Color:

- Rear panel (silver argento 4601)

Existing connections in the rear panel:

- 1 EC device plug C14: 1-pole fuse holder; 2-pole mains switch, incl. filter: Inductance L [mH] 2 x 4; Capacitance CX [nF] 47; Capacitance CY [nF] 2.2; R[MΩ] incl. fuse: 3.15A T
- 1 USB service interface
- 1 RJ45 service interface

PERFORATED

Part number: NX01-500-103-01



Scope of delivery:

- 1 aluminium rear panel, powder coated
- 1 EC device plug
- 1 USB service interface
- 1 RJ45 service interface
- 3 screws

Color:

- Rear panel (silver argento 4601)

Optional:

- Fan for perforated rear panel
- Part number: 122201

Existing connections in the rear panel:

- 1 EC device plug C14: 1-pole fuse holder; 2-pole mains switch, incl. filter: Inductance L [mH] 2 x 4; Capacitance CX [nF] 47; Capacitance CY [nF] 2.2; R[MΩ] incl. fuse: 3.15A T
- 1 USB service interface
- 1 RJ45 service interface

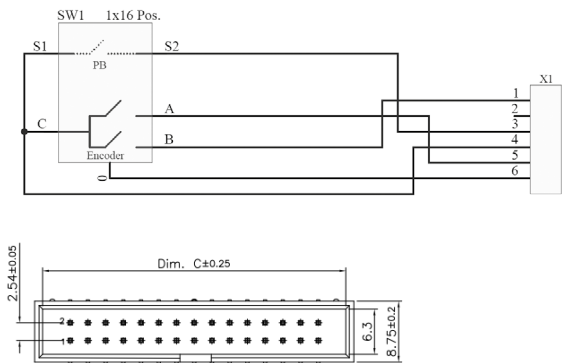
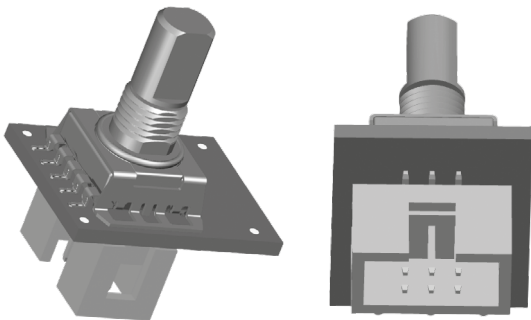
DISPLAY

TECHNICAL DETAILS

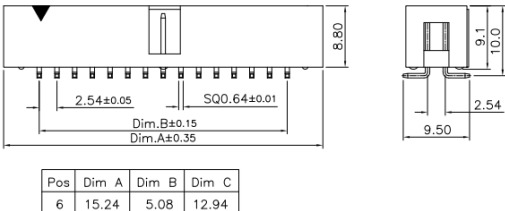
WORKING/STORAGE TEMPERATURE	
Min.:	−20 °C
Max.:	+70 °C
Humidity:	≤ 90 % RH
TOUCH CONTROLLER	
Output:	USB
For operating systems with touchscreen functionality	
MATERIALS	
Display area:	H 154 mm x V 85 mm (7 inch)
Display colors:	16.7 M Colors
Number of pixels:	1024 (RGB) * 600 Dots
CR (type):	800
Viewing angle:	min. 80 degrees
Backlight life time:	50'000 hours
Brightness:	min. 1000 cd/m²
Voltage:	12 V
Power consumption/input:	0.615 A
DISPLAY INTERFACE	
Internal:	1 channel LVDS
External:	1 channel HDMI

ROTARY SWITCH

MECHANICAL DATA	
Positions:	32 positions
Switching torque:	32 positions: 1.5 Ncm (±30 % in new condition)
MECHANICAL DATA FOR PUSH BUTTON	
Actuation force:	6 N (±30 % in new condition)
Travel:	0.5 (±0.2) mm
MATERIALS	
Shaft:	Brass CuZn38Pb2
Bushing housing:	Zinc die casting (nickel plated)
Contact surface:	Cu alloy (Au plated)
Soldering leads:	Cu alloy (tin plated)
MATERIALS	
Contact resistance:	< 10 Ω (over the entire rotational life)
Signal coding:	2-Bit-quadrature
Resolution (pulses per revolution):	16 PPR per channel (A leads B clockwise)
Rotational speed:	< 60 rpm
Phase shift:	90° (±70°)
Contact bouncing:	< 2 ms (at 60 rpm)
Dielectric strength:	500 VDC during 60 s (MIL-STD-202G, method 301)



Pin	Pin assignment
1	B
2	
3	S2
4	C/S1
5	A
6	0



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