

> TOUCHPOINT NANO

Roombus



With the Touchpoint Nano, users of a room can set and display the living climate.

Characteristics

- control functions for:
 - type 1: temperature
 - type 2: temperature and ventilation
- 4 digital inputs
- variants: Gira, Busch Jaeger and EDIZIO
- the language-independent display can be read clearly in various lighting conditions
- mounting in standard flush-fit box
- immediately ready for use in a Roombus configuration

Variants: Gira, Busch Jaeger and EDIZIO

The Touchpoint Nano is available in different variants and for various types of switchgear. This means that for every room a Touchpoint Nano is available that matches the design of that room.

For each variant, a type without fan control (type 1) and a type with fan control (type 2) is available.

The language-independent display can be read clearly in various lighting conditions

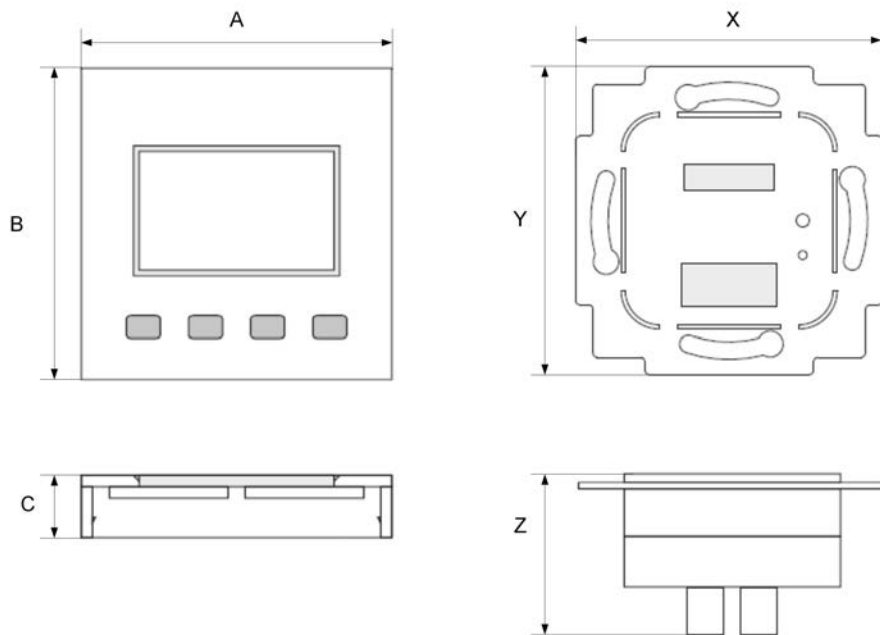
The use of universal icons instead of text means that the Touchpoint Nano is language-independent. The display can be read clearly in various lighting conditions.

Immediately ready for use in a Roombus configuration

Via the Roombus interface, the device can be immediately included in a Roombus configuration with a Comforte CX2 or Comforte CX2 VAV.

TouchPoint Nano specifications

General						
Article description	Touchpoint Nano Gira		Touchpoint Nano Busch Jaeger		Touchpoint Nano Feller EDIZIO	
Fan control	No (type 1)	Yes (type 2)	No (type 1)	Yes (type 2)	No (type 1)	Yes (type 2)
Article number	400311	400314	400312	400315	400313	400316
Dimensions front view (ABC)	80 x 80 x 14 mm		81 x 81 x 14 mm		88 x 88 x 14 mm	
Dimensions of flush-fit box (XYZ)	52 x 52 x 33 mm					
Weight	100 grams					
Indication	the LEDs are visible after disassembling the screen <ul style="list-style-type: none"> • supply voltage OK indication (green LED) • error indication (red LED) • Tx/Rx indication (yellow LED) 					



The mounting plate of the Touchpoint Nano type Feller EDIZIO differs slightly from the picture.

Electrical	
Input voltage	13.5 ... 26.4 VDC
Supply current	58 mA at 16 VDC (power supply from a Comforte base module) 40 mA at 24 VDC (power from a Roombus power supply module)

Measurements	
Temperature	
Measurement range	0 ... 50°C (32 ... 122°F)
Accuracy at 21°C ¹	± 0.5°C
Resolution	0.1°C
Measurement interval	1 s

¹ On account of automatic calibration, the accuracy only applies after the Touchpoint Nano has been operational for a minimum of 3 hours.



Digital inputs	
Number	4
Maximum cable length	3 m
Usage	voltage-free contact to GND
Internal pull-up resistance	4.7 kOhm
Nominal voltage on input without load	5 VDC
Minimum high input voltage with open contact	3 VDC
Maximum low input voltage with closed contact	1 VDC
Minimum resistance with open contact	8 kOhm
Maximum resistance with closed contact	1 kOhm
Nominal sampling time	100 ms

Display and operation	
Display	LCD (34 x 21 mm) black and white, with language-independent icons
Operation	via buttons (functions configurable)
Number of buttons	4 various buttons for type 1 and type 2

Connections	
Type of connector	two 5-pole plug-in screw connectors: <ul style="list-style-type: none"> • 1 plug-in screw connector for power supply and Roombus • 1 plug-in screw connector for digital inputs
Cable type	twisted pair, shielded or unshielded
Communication interface	RS-485
Communication protocol	Modbus RTU
Transmission speeds (adjustable with DIP switch)	9600, 19200, 57600 or 115200 baud default setting: 115200 baud
Bus load	< 1/4 Unit Load
Other parameters	number of data bits: 8 parity: none, even, odd (adjustable with DIP switch, default setting: even) number of stop bits: 1 stop bit for even/odd parity, 2 stop bits for no parity (default setting: 1 stop bit)
Cross section	0.08 – 1.5 mm ² (without ferrule connector) 0.08 – 0.5 mm ² (with ferrule connector)
Strip length / connector length	6 mm

Housing	
Material	base: ABS housing: PC buttons: TPE-V
IP code	IP30 (IEC 60529)
Flammability class	V0
Recycle code	7
Colour	base: black front: pure white buttons: grey

Environment	
Permissible ambient temperature during use	0 ... 50°C (32 ... 122°F)
Permitted temperature during transport and storage	-10 ... 50°C (14 ... 122°F)
Permissible ambient relative humidity	maximum 85% (non-condensing)
Degree of pollution	2
Installation category	II

Regulations and standards		
Europe		<ul style="list-style-type: none"> • Low Voltage Directive (2014/35/EU): <ul style="list-style-type: none"> • EN 60730-1 (automatic electrical controls) • EMC Directive 2014/30/EU: <ul style="list-style-type: none"> • EN 60730-1 (automatic electrical controls) • EN 61000-6-1 (generic immunity standard) • EN 61000-6-3 (generic emission standard) • RoHS Directive 2011/65/EU: <ul style="list-style-type: none"> • EN 50581 (restriction of hazardous substances)
		in compliance with WEEE directive 2012/19/EU

Addressing

Addressing	
Structure of address	fixed address offset + adjustable address section
Fixed address offset	16
Adjustable address section	0 ... 15
Available address range	16 ... 31

DIP-switches



Label	Description	Example
1	device address (bit 0, LS bit)	1 - 2 - 3 - 4
2	device address (bit 1)	address offset + 0 - 0 - 0 - 0 = 16 (default setting)
3	device address (bit 2)	address offset + 1 - 0 - 0 - 0 = 17
4	device address (bit 3)	address offset + 1 - 1 - 1 - 0 = 23
5	not used, must always be '1'	address offset + 1 - 1 - 1 - 1 = 31
5	not used, must always be '1'	-



Label	Description	Example
1	not used, must always be '0'	
2	baud rate	2 - 3
3		0 - 0 = 9600 baud 0 - 1 = 57600 baud 1 - 0 = 19200 baud 1 - 1 = 115200 baud (default setting)
4		parity
5	0 - 0 = none 0 - 1 = odd 1 - 0 = even (default setting) 1 - 1 = even	
6	not used, must always be '0'	

Connection specifications

Description	Touchpoint Nano connector	Roombus connector
	Plug-in screw connector 	RJ45 connector
+ of power supply	pin 5: V+	pin 1 (orange/white)
GND of power supply and RS485	pin 4: 0	pin 2 (orange)
RS485-A	pin 3: A	pin 3 (green/white)
RS485-B	pin 2: B	pin 6 (green)
GND for digital inputs	pin 10: GND	N/A
digital input D4 ... D1	pin 6 ... 9: D4 ... D1	N/A
GND, not used	pin 1:	N/A

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