

Produal Proxima® WTR24 - wireless room transmitter



Produal Proxima WTR24 externally powered wireless transmitters are for detecting indoor temperature, humidity and CO_2 level. The transmitters can also be equipped with a display, advanced setpoint knob, and occupancy detection. The transmitters require 24 V supply voltage. Transmitters are compatible with the Produal Proxima MESH wireless network.

The information is transmitted to the base unit according to the base unit poll interval. Data may be additionally transmitted using change-of-value (COV) based transmission. COV means that the data is sent to base station after the value has changed enough. If COV based transmission is used, the required value change must be configured with Produal MyTool[®].

The wireless network needs one base unit. Commissioning is done by using Produal MyTool® smart phone application.

Technical specifications

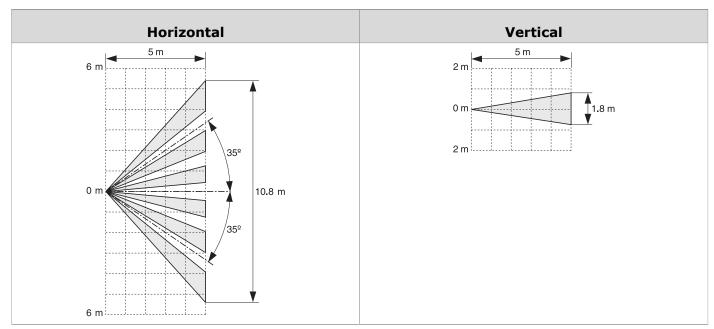
Property	Value	C€	UK
Supply	24 Vac/dc (2228 V), <2 VA		
Wireless network properties			
Frequency	2.4 GHz (24002483.5 MHz)		
Maximum transmit power (E.I.R.P)	4 mW (6 dBm)		
Bandwidth	2000 kHz		
Modulation	GFSK		
Network range (maximum	up to 100 m in the line of sight, typically 1020 m inside buildings		
distance between devices)	Note: The maximum distance between devices depends on installation environment.	the	
Temperature measurement			
Range	050 °C		
Accuracy	typically ± 0.2 °C, max ± 0.4 °C (3 σ)		
Accuracy (CO2 models)	±1 °C		
Humidity measurement (RH models)			
Range	0100 %rH		
Accuracy (25 °C)	typ. ±2 %rH (1090 %rH), max. ±5 %rH		
CO ₂ measurement (CO2 models)			
Range	02000 ppm		
Accuracy	typ. ±40 ppm ±3 % of value		



Property	Value C€ CR
Measurement interval	30180 s
Occupancy detection (PIR models)	
Detection area	up to 5 meters
	See more information about the detection area from the chapter Detection area (PIR models) on page 3.
Lens	Fresnel lens, high density polyethylene
Display (D and AK models)	Monochrome LCD display
Commissioning tool	Produal MyTool® Gettion Google Play
Appliance class (IEC 60664-1)	III
Operating conditions	
Temperature	050 °C
Humidity	085 %rH (non-condensing)
Wiring terminals	1.5 mm ² , spring terminals
Housing	
Material	PC plastic
Protection class	IP30
Mounting	on the wall surface or on the standard flush mounting box (60 mm hole spacing)
Dimensions (w x h x d)	97 x 97 x 33 mm
FCC/ISED	This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s) and complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
	 This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation of the device.
	L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
	 L'appareil ne doit pas produire de brouillage. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
	Contains:
	FCC ID: XPYNINAB1 IC: 8595A-NINAB1
Responsible party	Dent Instruments 925 SW Emkay Drive Bend, OR 97702 USA 1-541-388-4774



Detection area (PIR models)



Wiring WTR24

The WTR24 models have connectors for 24 Vac/dc supply.



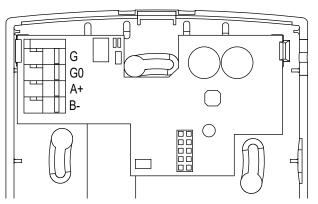
WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.



WARNING: This product is appliance class III product according to IEC 60664-1. The product may only be connected to SELV (safety extra low voltage) electricity network.



CAUTION: The product may only be connected to overvoltage category I, II or III electricity network according to IEC 60664-1.



G	24 Vac/dc supply
G0	Ground
A+	Not in use.
B-	NOC III use.



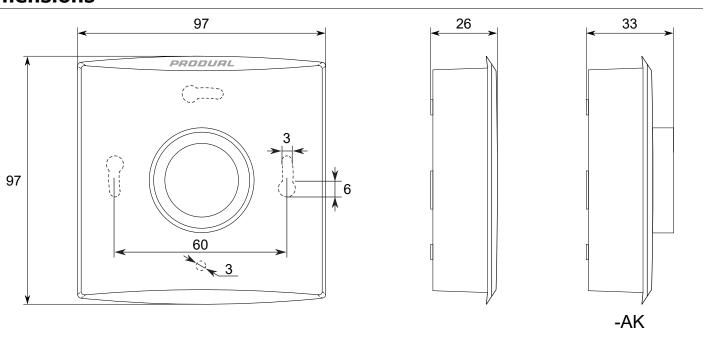
Ordering information

		Type	0	1	2	3	4	5	6
Wireless room transmitter			5401	4				0	0
1 Device type	Wireless temperature transmitter, 24 Vac supply	WTR24		4					
2 Body colour	White				W				
	Black	В			В				
3 Display	No display					0			
	Advanced setpoint knob with display, menu button	-AK				1			
	Display, menu button	-D				3			
4 Additional measurements	No additional measurements						0		
	CO ₂	-CO2					С		
	Relative humidity	-RH					Н		
	Occupancy detection	-PIR					Р		
	Relative humidity and occupancy detection	-RH-PIR					1		
	CO ₂ and relative humidity	-CO2-RH					2		
	CO ₂ and occupancy detection	-CO2-PIR					3		
	CO ₂ , relative humidity and occupancy detection	-CO2-RH-PIF	₹				4		

For example, ordering a black wireless transmitter with CO_2 measurement and display (+ menu button): The product type is WTR24B-D-CO2 and the product number is 54014B3C00.

Туре	Product number	Description
VP-PROX	9000460	Protective casing for Proxima room products

Dimensions



Supported standards and directives

Standard	Description
2014/30/EU	Electromagnetic Compatibility (EMC).



Standard	Description
2014/53/EU	Radio Equipment Directive (RED).
2000/299/EC	Classification of radio equipment: Class 1, Wideband data transmission systems (Subclass 22).
2011/65/EU	Restriction of Hazardous Substances (RoHS2) Directive.
(EU) 2015/863	Commission Delegated Directive, amending Annex II to Directive 2011/65/EU.
EN IEC 62368-1:2020	Audio/video, information and communication technology equipment - Part 1: Safety requirements
EN 300 328 V2.2.2	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of directive 2014/53/EU.
EN 301 489-1 V2.2.3	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
EN 301 489-17 V2.2.1	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission systems.
SFS-EN IEC 63044-3:2018	Home and building electronic systems (HBES) and building automation and control systems (BACS) - Part 3: Electrical safety requirements
SFS-EN IEC 63044-5-1:2019	Home and building electronic systems (HBES) and building automation and control systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up
SFS-EN IEC 63044-5-2:2019	Home and building electronic systems (HBES) and building automation and control systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments
SFS-EN IEC 63044-5-3:2019	Home and building electronic systems (HBES) and building automation and control systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industrial environments

Changes or modifications made to this equipment not expressly approved by **Produal** may void the FCC authorization to operate this equipment.



Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The radiated output power of the device is far below the 47 CFR 1.1310 radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized.

Radiofrequency radiation exposure information

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm



de distance entre la source de rayonnement et votre corps. Ce transmetteur ne doit pas etre place au meme endroit ou utilise simultanement avec un autre transmetteur ou antenne.