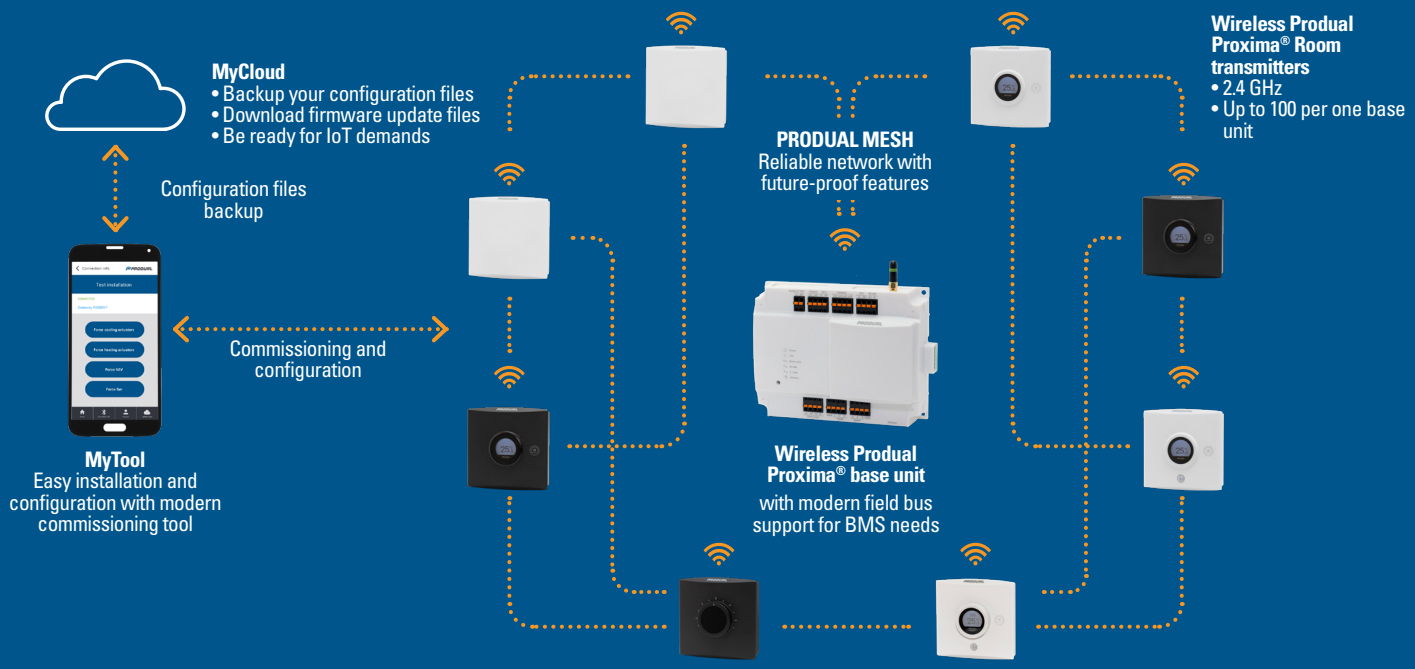
WIRELESS IS THE WAY

PRODUAL PROXIMA

PRODUAL
measure - be sure.



THE WIRELESS

PRODUAL PROXIMA® IS THE WAY

The wireless future is here. Our next-generation Produal Proxima® solution creates reliability for wireless measuring for a multitude of applications – from building automation to environment monitoring and IoT-applications.

Wireless Produal Proxima® is one of the first wireless MESH systems that can be fully operated with a battery. Its every transmitter acts simultaneously as a repeater, removing the need for external repeater units in the network. Utilising the latest wireless technology innovations, Produal MESH network ensures extreme reliability even in the most challenging radio environments. In addition, with external power supply, there is a possibility to run a wireless network with minimal latency in applications where speed is a high priority.

Wireless Proxima base unit (WBU) is the heart of the wireless Produal MESH network, supporting up to 100 wireless transmitters for a wide range of measurements and options, e.g. temperature, humidity, CO_2, occupancy, and implementation of wireless room interface. There are also products that can convert digital contacts, NTC10 temperature measurement and 0…10 V inputs to wireless messages, which allows for almost unlimited application possibilities. Wireless Produal Proxima® is designed to be both tangle-free and future-proof, aiming to offer the most comprehensive and multifunctional wireless portfolio on the market.

It's scalable and
RELIABLE.

Unparalleled reliability and scalability

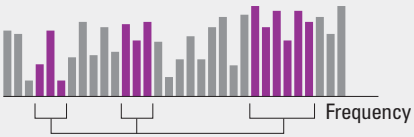
Wireless interferences are a thing of the past

A self-healing Produal MESH network is the most energy-efficient way to ensure reliable data transfer, since every transmitter in a MESH network works as a repeater. In case of an interruption, the transmitters simply reroute communication through working nodes – thus keeping a steady connection at all times. Also, two-way communication ensures ultimate reliability with its smart message acknowledgement feature.

Wide network monitoring and supervising possibilities make the system extremely trustworthy.

- Scalable setup from small to large-sized installations.
- The best possible wireless connection
- A wider coverage area than ever before
- Transmitters working as repeaters extend the coverage.

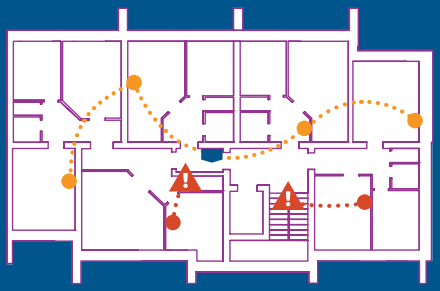
Adapted messages use available frequencies



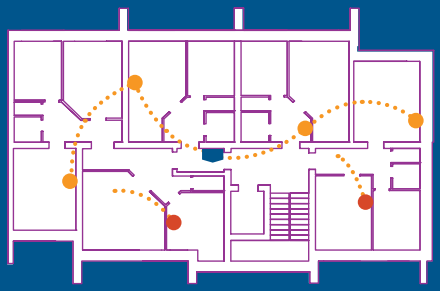
Produal MESH network operates along with other wireless technologies in the building by dynamically using the best available communication frequencies. This patented technology minimises the likelihood of being interfered by or interfering with other wireless systems.

IMPROVED CONNECTION VIA PRODUAL MESH

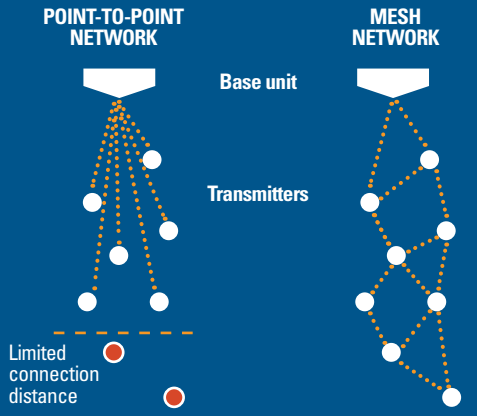
1. Some transmitters detect a connection problem.



2. Produal MESH network technology enables them to find new routes to connect to the base unit.



MESH VS. POINT-TO-POINT NETWORK



No need for worrying about maximum distance between the base unit and the utmost transmitter in the network.

It's
EASY.

Battery-powered freedom

The first fully battery-operated MESH network on the market

- No need for extra repeaters
- Energy efficient technology
- No need for external power supplies for routing nodes
- Ultra-low power consumption
- Battery lifetime up to 8 years
- Adjustable battery alarm set point
- Battery-operated transmitters with displays also available

BATTERY LIFETIME OF TRANSMITTERS UP TO 8 YEARS
depending on measuring intervals and functions

Built-in options

Temperature °C
Display
Value Over Bus
Adjustable poll interval
CO_2
Movement
COV
Humidity %rH
Dew point

External measurements

Dry contact
Resistance
NTC 10
0...10 V

It's easy-to-use and
SECURE.

Intuitive security

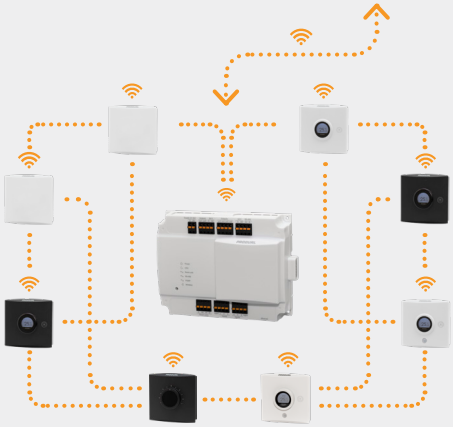
Presenting an easy-to-use tool for quick configuration and updates

By using the handy Produal MyTool® Android application, the entire wireless network can be configured and commissioned easily through your standard mobile device.

All the network messages between devices are encrypted in AES-128 level. Easy remote firmware updates allow time and money savings and ensure future-proof security.

THE MANY FUNCTIONALITIES OF PRODUAL MyTool®

- Network commissioning
- Network monitoring
- Signal scanning
- Finding the best possible transmitter installation places
- Device data monitoring

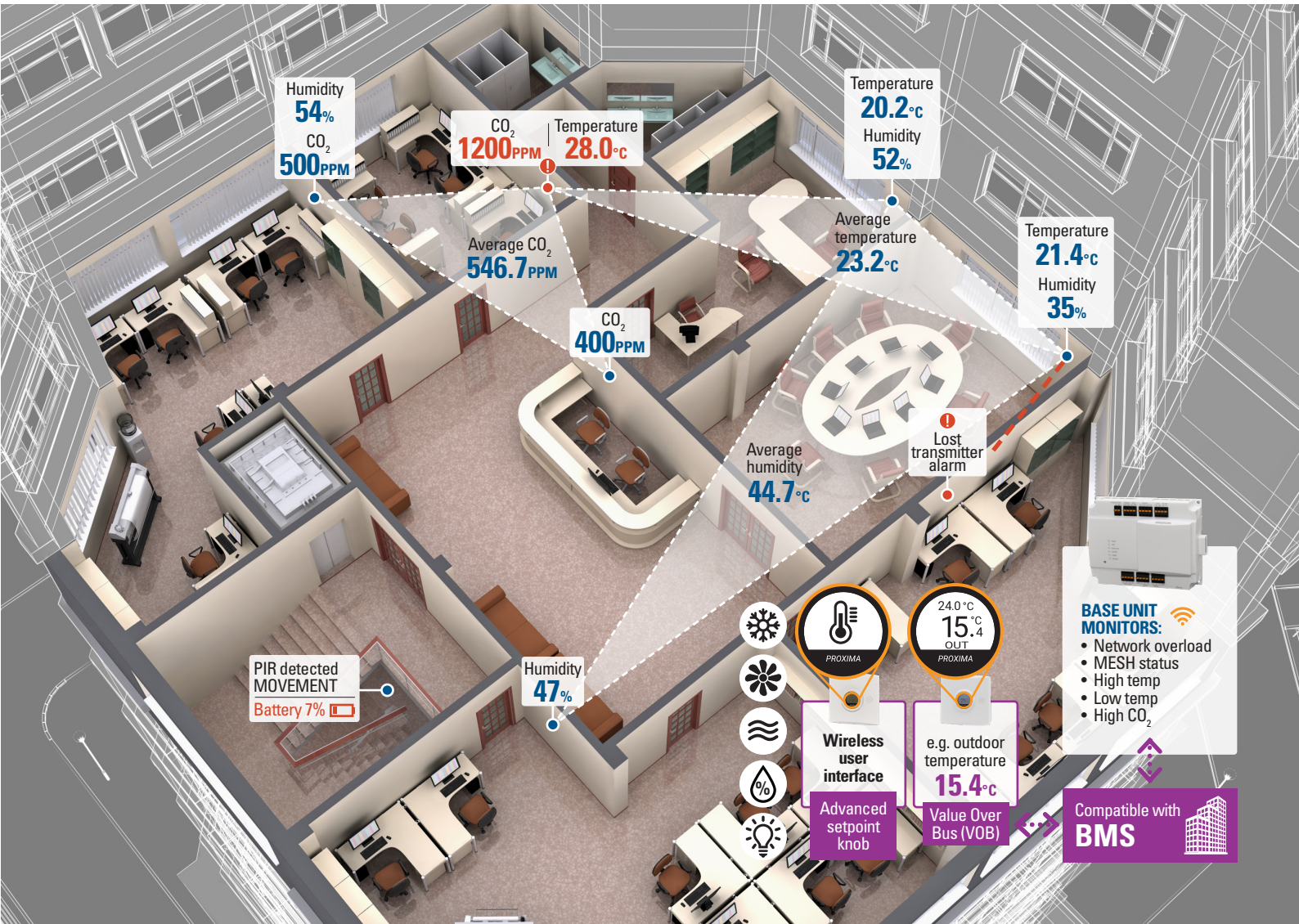


It wirelessly covers
EVERYTHING.

Stunning multifunctionality

A plethora of features to fully benefit system integrators

Operating in the globally accepted frequency 2.4 GHz, which is acknowledged in various environments, Wireless Produal Proxima® offers a broad gamut of possibilities and options for system integrators – including wide measuring opportunities, alarm and monitoring functions, wireless user interface option, and more. With base unit polling and/or transmitter change of value features, the system provides increased flexibility to network data collecting.



Wireless Produal Proxima® network components

Presenting the foundation of a wireless future

WIRELESS PROXIMA BASE UNIT

WBU is a base unit for wireless network transmitters. With Wireless Proxima, all transmitters are communicating with WBU over the air, with measurement data converted to Modbus TCP/IP, Modbus RTU or 0…10 V analog outputs (6 pcs) for the requirements of BMS or other systems. Wired measurements can be read over Modbus to BMS via inputs (6 pcs).

BATTERY-OPERATED WIRELESS PROXIMA ROOM TRANSMITTERS

Our basic WTR – battery-operated wireless transmitter – includes temperature measurement, and offers a variety of different options, such as humidity and CO_2 measurement, occupancy detection*, and display. Also, a setpoint knob* and an advanced setpoint knob with the display are available for implementing a wireless user interface in the room. There are two basic colours available: white (WTR) and black (WTRB).

*available in Q2/2021

POWER SUPPLY OPERATED WIRELESS PROXIMA ROOM TRANSMITTERS

WTR24 is a power supply operated wireless transmitter. The basic WTR24 includes temperature measurement, and offers a variety of different options, such as humidity and CO_2 measurement, occupancy detection*, and display. Also, an advanced setpoint knob with the display is available for implementing a wireless user interface in the room. Most installations can use battery-powered devices, but wired versions can provide a fast frequency of measurements for applications where speed is a high priority. There are two basic colours available: white (WTR24) and black (WTR24B).

*available in Q2/2021

WIRELESS PROXIMA INPUT MODULE

WTR-IM can be operated with a battery and/or power supply. The basic WTR-IM includes temperature and humidity measurement. WTR-IM supports three additional external measurements, such as NTC10 temperature, 0...10 V inputs, or digital input. There are two basic colours available: white (WTR-IM) and black (WTRB-IM).

PRODUAL MYTOOL® APPLICATION

Android application available for download via Google Play.

GET IT ON Google Play

PRODUAL

measure - be sure.

Produal is your reliable partner for high-quality building automation measurement and control. Wireless functionality is one of the fastest growing trends in the world – and this is also the case in building automation. Produal has been a pioneer in offering wireless solutions to this market since 2006. Now, the wireless future is here: our next generation Produal Proxima® solution is creating reliability for wireless building automation!

info@produal.fi
produal.com