# MERLIN

## The Smart Solution
## for HVAC Room Control

MERLIN is a BACnet-compliant room controller offering utmost energy efficiency and installation flexibility.

CENTRA LINE®

by Honeywell

# SMART ROOM CONTROLS

**MERLIN – more than a flexible HVAC room control platform.**

It is a new way of getting leading-edge, proven application know-how into your room management. And it is a new way of commissioning room applications – simply via smartphone and the RoomUp app.

# Application Excellence

# Energy Efficiency

MERLIN covers a wide range of room control applications in an energy-efficient way:
- 2- & 4-pipe FCU
- 1–3 stage fan; variable speed fan
- chilled ceiling
- heated ceiling
- hydronic heating
- a mix of above applications

Applications can be easily adapted to changes or extensions during the building's lifetime via master-slave configurations.

Customer-specific application needs can be covered through freely programmable logic.

Tested and proven high-end applications are provided with the controller. The RoomUp app guarantees guided configuration and testing of applications and therefore error-free commissioning at minimized efforts.

In accordance with EN15232, the controller has the highest efficiency rating for demand-based control of individual rooms.

For utmost energy efficiency the application supports pressure-independent control valves, 6-way valves, variable speed fans and indoor air quality control.

## MERLIN Benefits

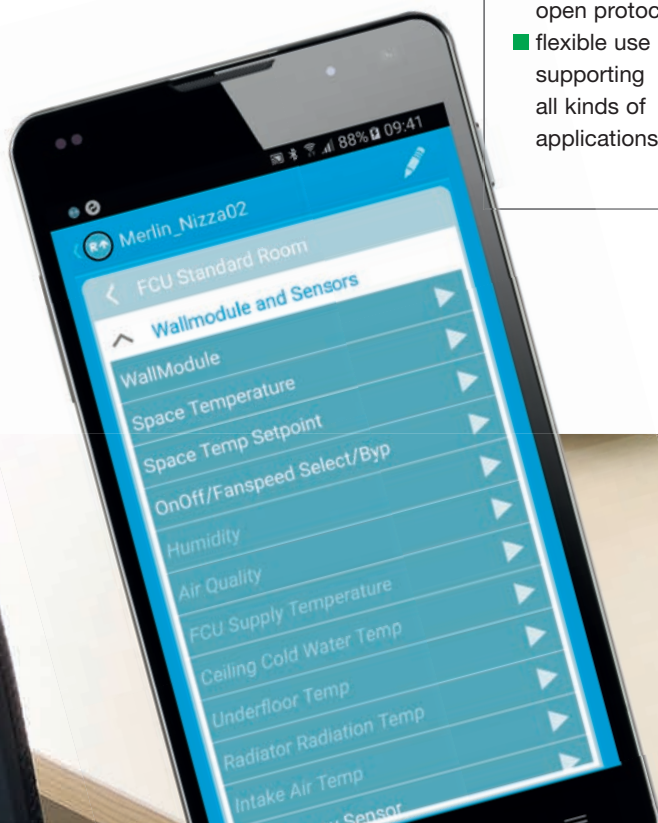| Consultant | Investor | Contractor | Commissioner |
|---|---|---|---|
| ■ seamless, open protocol<br>■ flexible use supporting all kinds of applications | ■ security of investments<br>■ low initial and maintenance investment<br>■ Green Building accreditation | ■ reduced total solution cost<br>■ easy set-up/ commissioning<br>■ broad range of applications | ■ fast and easy-commissioning<br>■ plug & play application<br>■ seamless open communication |

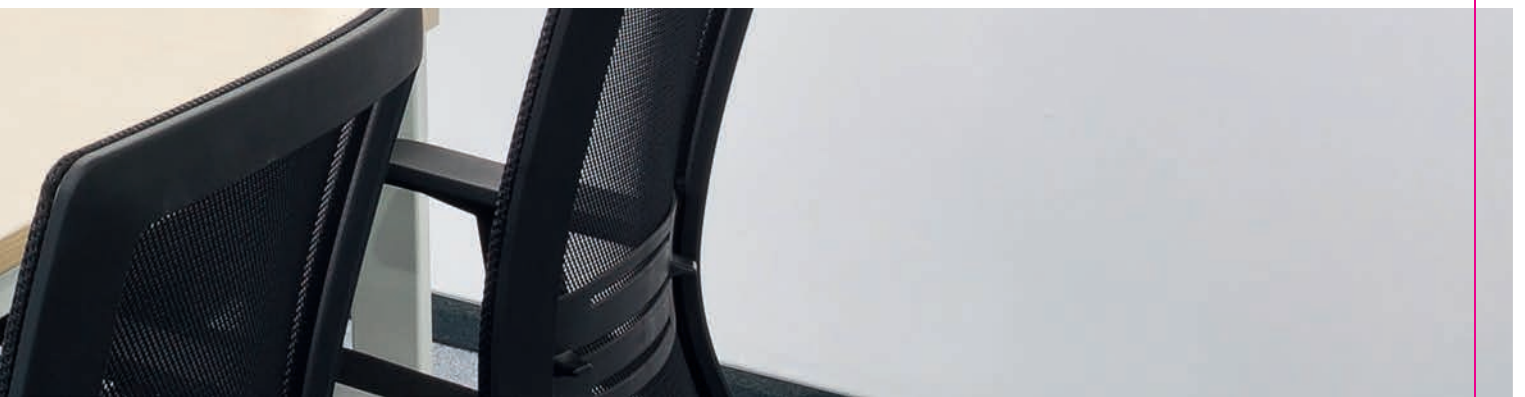# Installation Flexibility

# Investment Safety

MERLIN offers a multitude of smart, cost-saving features:

- available in two housing dimensions and several I/O versions to match individual needs
- universally mountable on DIN rails, small installation housings, and walls (including optional terminal covers)
- offers 24 VAC aux. output voltage, allowing direct connection and powering of field devices
- can be powered with line voltage
- relays and triacs are able to handle line voltage
- simple wiring via two-wire polarity-insensitive bus interface to connect to CentraLine wall modules (CLCMTR40 and CLCMTR42)
- easy facility-wide application installation: once a single room is configured the application configuration can be extended to other rooms via the RoomUp app ('Template Concept')

MERLIN allows you flexibility for the future:

- longterm security of investment and compatibility regarding future enhancements is guaranteed, as MERLIN operates on the BACnet industry standard (BTL®-listed as Advanced Application Controllers (B-AAC))

- utmost flexibility to adapt to future room usage scenarios is guaranteed through support of master-slave concept
- controller leaves all options open for future application developments, as new applications can simply be downloaded to the controller via BACnet

ASHRAE **BACnet**™

# RoomUp App

## SMART APPLICATION CONFIGURATION

CentraLine's MERLIN brings all the application expertise for intelligent, energy-efficient room mangement to the point. Tested, proven and built-in applications, made available as configurable variants via the Android-based RoomUp app. The RoomUp app guarantees guided configuration and commissioning of applications and therefore error-free commissioning at minimized effort.

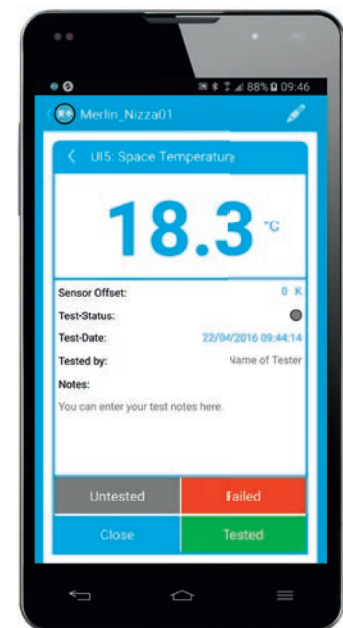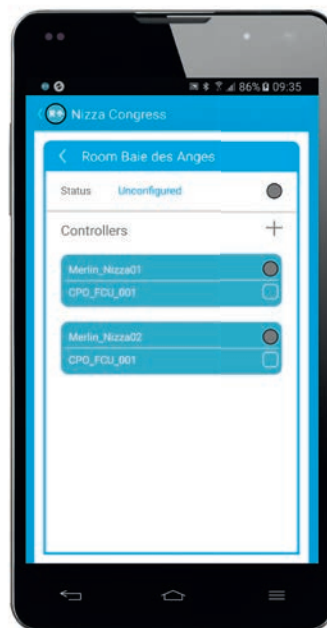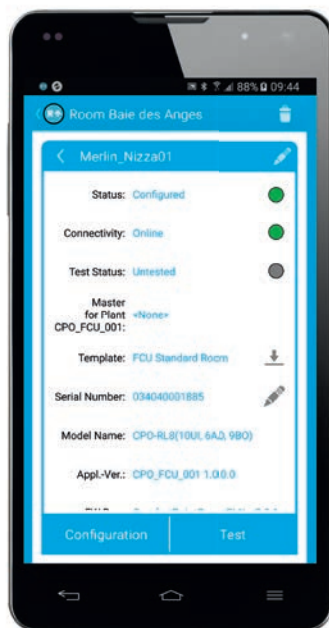## EFFICIENT FACILITY-WIDE APPLICATION HANDLING

RoomUp's intelligent 'Template Concept' allows applications for hundreds of rooms to be conveniently generated and changed in one go. This drastically reduces commissioning time. E.g. changes to an application only need to be done once to the underlying application template of a room: The changes will then be automatically applied to all rooms using this template.

All commissioning actions can be executed conveniently from the smartphone via a wireless network. This enables the commissioning engineer to move freely throughout the building during the commissioning process.
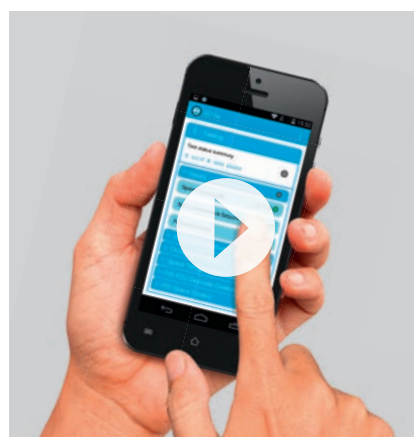
## UNIQUE COMMISSIONING EXPERIENCE

CentraLine's RoomUp offers a completely new way of room commissioning and final testing:
- ◾ fast and easy single-person commissioning via smartphone and tablet
- ◾ reliable onsite test procedure through guided testing and integrated test report generation
- ◾ efficient, automatic device addressing
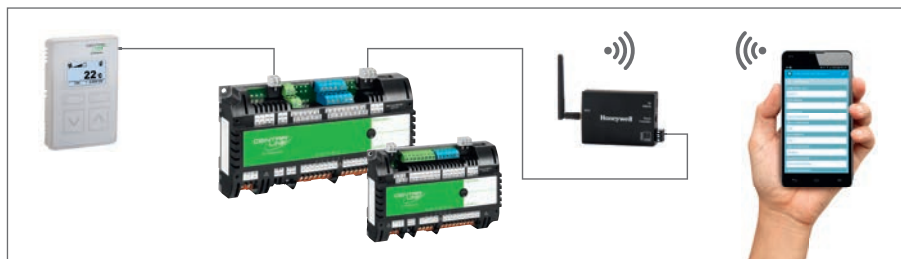- ◾ wireless communication allows commissioning prior to completion of bus installation

See the benefits with your own eyes. RoomUp video at: centraline.com/merlin

# Products

| | Order number | Power Supply | AOs | UIs | Rel. | Triacs (24/230 VAC) | Sum IO | LED output | 24 VAC outputs for field devices |
|---|---|---|---|---|---|---|---|---|---|
| **Large controller** (198 x 110 x 57,5 mm) | **CLMERL2** | 230 VAC | 2 | 6 | 4 | 4 | 16 | 1 | 300 mA |
| | **CLMERL8** | 230 VAC | 6 | 10 | 4 | 4 | 24 | 1 | 300 mA |
| | **IRM-RLC** | Package with 10 terminal covers | | | | | | | |
| **Small controller** (162 x 110 x 57,5 mm) | **CLMERS4** | 230 VAC | 4 | 4 | 4 | 2 | 14 | 0 | 300 mA |
| | **IRM-RSC** | Package with 10 terminal covers | | | | | | | |
| **Commissioning** | **BACA-A** | WiFi adapter & RJ45 cable | | | | | | | |
| | **RoomUp App** | Android app | | | | | | | |
| **Wall modules** | **CLCMTR40, -H, -CO2, -H-CO2 without display** | | | | | | | | |
| | **CLCMTR42, -H, -CO2, -H-CO2 with display** | | | | | | | | |
| | **CLCM1T, 2T, 4T, 5T and CLCM6T111 hardwired to controller IOs** | | | | | | | | |



Find your CentraLine office or a CentraLine partner in your area at:
**centraline.com**

See all product details and technical documentation on your smartphone at:
**m.products.centraline.com/en**

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