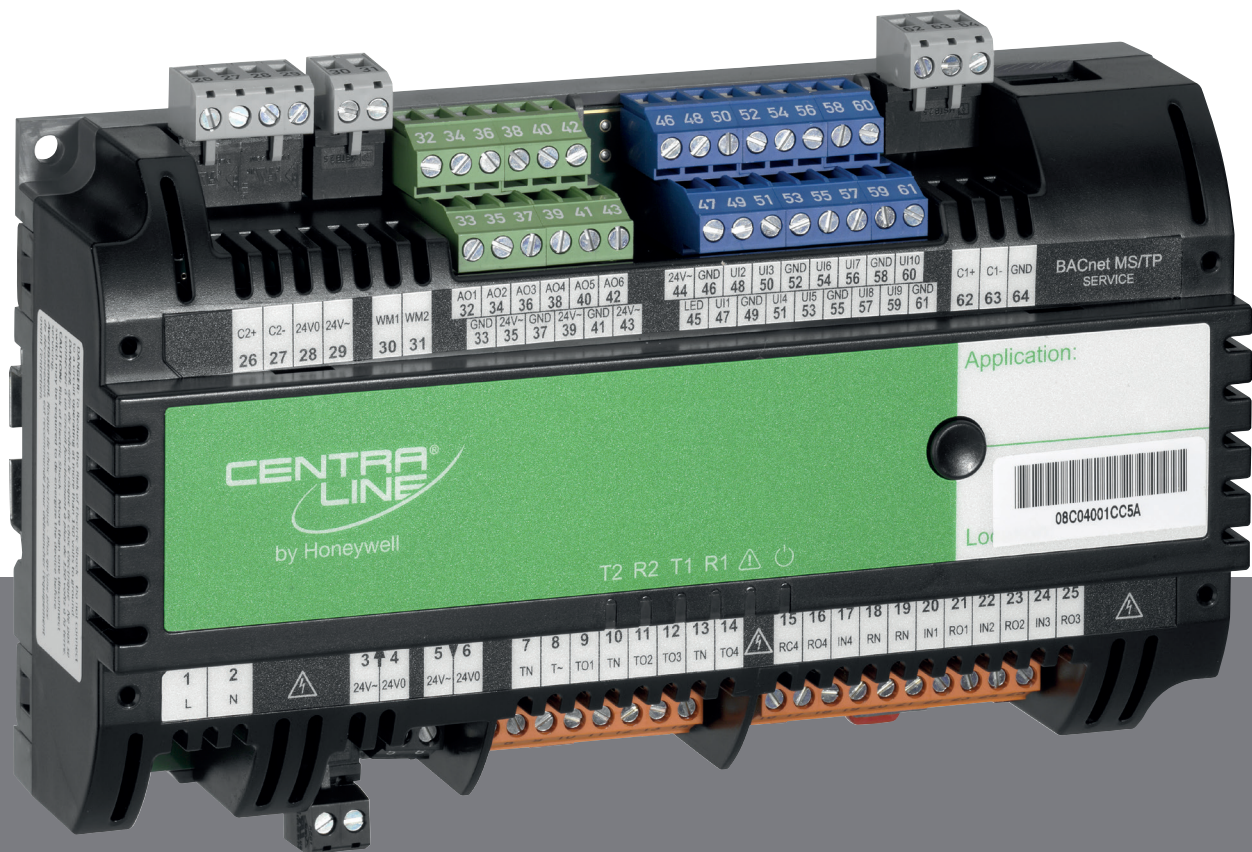


MERLIN NX

INTEGRATED ROOM MANAGEMENT WITH NIAGARA EXTENDED

Benefit from the freely programmable BACnet MS/TP
room controller for HVAC, lighting and shading.



MERLIN NX

Integrated Room Management

MERLIN NX is a new innovative room management system that offers

Enhanced energy efficiency

As a freely programmable controller, MERLIN NX supports any application requirement across heating, ventilation, air conditioning (HVAC) as well as lighting and shading controls for higher energy efficiency.

Performance-based engineering

When using MERLIN NX with Niagara eXtended (NX), it allows Single-Tool-Engineering throughout the Building Management System as well as consistent and flexible handling options for the building operator.

Cost-effective installation and commissioning

The BACnet MS/TP based MERLIN NX ensures an economically feasible installation and commissioning for both new construction and refurbishments.

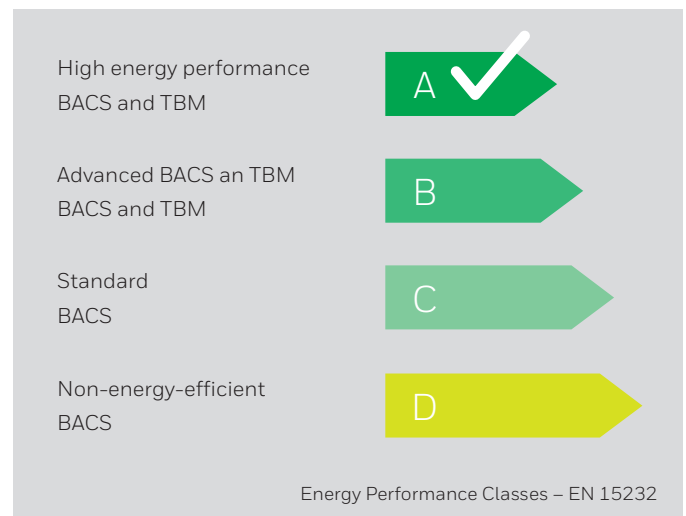
Future-proof investment

Free programmability, open Niagara and cloud-based services leave all options open for the future.

Enhanced energy efficiency

MERLIN NX provides common control strategies across HVAC, lighting and shading while also communicating energy demands to the plant control level for optimised cooling/heating generation. It thereby ensures the highest possible classification 'A' according to EN 15232.

The freely programmable MERLIN NX supports any room application requirement. Its state-of-the-art function blocks ensure efficient engineering and the highest energy savings.



Performance-based engineering and flexibility

Niagara eXtended offers a unique set of advantages to both system partners as well as for their customers:

Freely programmable

The universal NX allows seamless application coverage and common control strategies across HVAC and non-HVAC systems.

Single-Tool-Engineering

Applied across the whole building management system, NX provides consistent engineering and an operational platform for room, plant & supervisor programming as well as application testing. No integration effort needed.

Offline Engineering

Minimize engineering efforts on site through offline back-office preparation.

Live Engineering

Perform easy application optimizations on-the-fly without download anything. Also gain instant access to live values from controllers on a function block level.

Docu Generator

Automatically create customer-specific application documentation, including wiring information, project specific graphics, function block parameters and wire-sheet printouts.

Cost-effective installation and commissioning

As MERLIN NX is using BACnet MS/TP, a simple 3-wire installation is possible. This largely reduces cost in refurbishments, where often existing 3-wire cabling can be reused. Furthermore the compatible Sylk-Bus wall modules can re-use existing cabling, as they only need two polarity-independent wires.

Flexible mounting

The universally mountable controller can be installed on DIN rails, small installation housings, and walls (including optional terminal covers) to meet a wide variety of installation requirements..

Installation savings

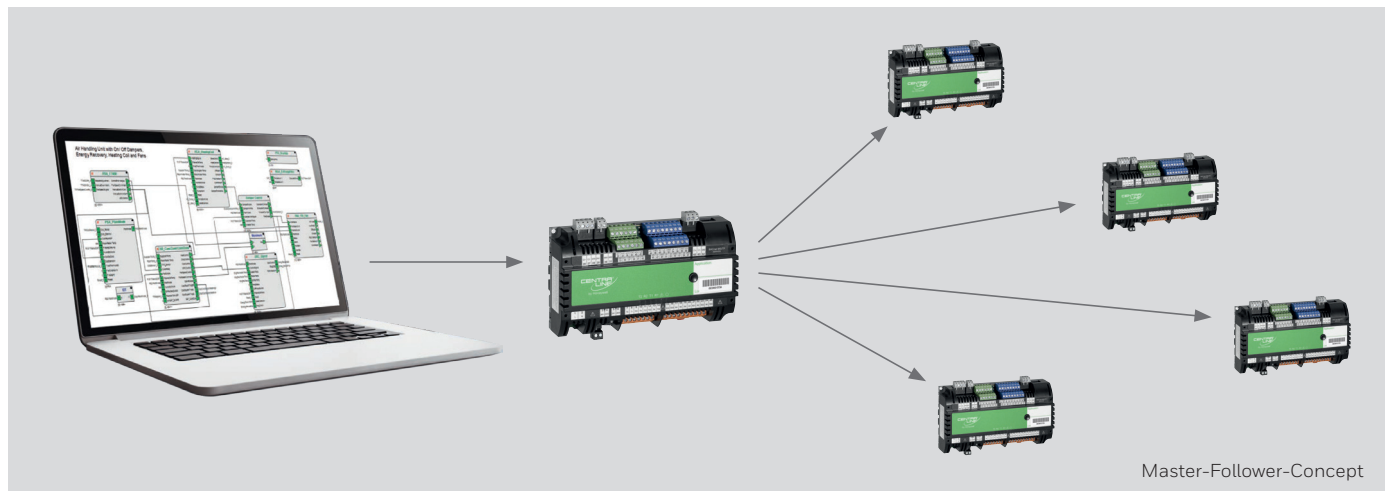
Also, the 24 VAC auxiliary output voltage on the controller allows direct connection and powering of field devices as well as line voltage supply and switching of line voltage.

Master-Follower-Concept

The fully automated rollout of application changes from a master controller to all other networked controllers allows for quick adaptations whenever needed.

Differential download

This function supports a fast and system-wide application optimization.



Future-proof investment

The freely programmable MERLIN NX easily adapts to any applications. Its vendor-independent offering (Niagara, BACnet) keeps all options open for the future as well.

In case the Niagara project got lost it is possible to recover the complete application program from the controller in original editable wire sheet format.

New Connected Building Management services can easily be utilized via the integrated cloud connector on both plant control and supervisory levels.

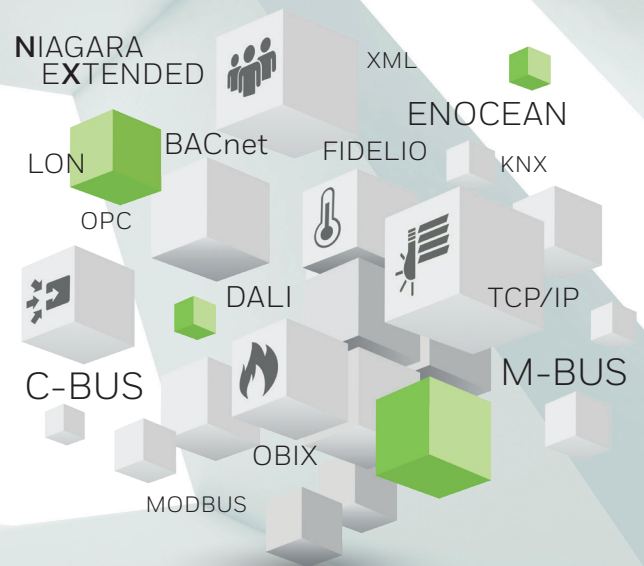


Niagara eXtended (NX)

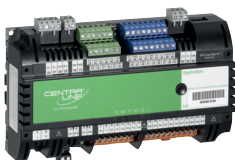
Single-Tool-Engineering for Integrated Building Management

Niagara eXtended (NX) is the CentraLine engineering tool, covering all application needs, from room to plant control and up to supervision and cloud solutions.

It is expanded upon Niagara 4 – the industry leading platform for integrated building management – and offers as NX version additional benefits and value to CentraLine customers and partners.



SINGLE - TOOL - ENGINEERING



Connected Building Management

Managing and servicing your building becomes much easier with our new cloud-based solutions, utilizing the collective power of Internet of Things (IoT) technologies and the deep domain expertise of our engineers.

Supervision

ARENA NX by CentraLine is a powerful integration and supervision platform, offering a unified vision across all building subsystems. ENERGY VISION puts you in control of your building's energy consumption.

Plant Control

CentraLine offers a comprehensive line of connected building management controllers for a variety of applications including HVAC and fully integrated solutions. CentraLine-specific are two further components:

- **Application Library**

The CentraLine Application Library ensures unparalleled energy efficiency as well as maximum application reliability. Energy Class A can be attained to meet international standards such as EN 15232.

- **Panel-Bus IO Concept**

Robust and scalable, the CentraLine Panel Bus Input/Output modules support application sizes from small appliances to large systems with over 1000 IOs.

Room Control

Our extensive offering of configurable and freely programmable room solutions ensures both customer comfort and high-energy efficiency. Easily integrate lighting and blind control solutions in accordance with EN 15232.

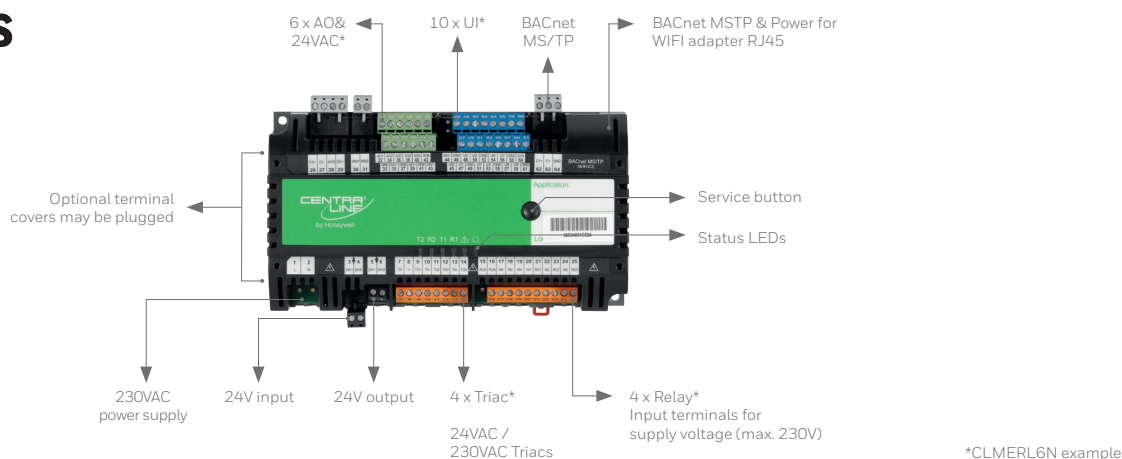
Investment Safeguard

Niagara eXtended allows for seamless integration of Honeywell legacy installations, including C-Bus, Lon and BACnet systems. This minimises cost of change and offers additional flexibility to upgrade installations to the Internet of Things.

Versions

	Version	Power supply	AOs	UIs	BlIs	Rel.	Triacs (24/230VAC)	Sum IO	24VAC outputs for field devices	2nd RS485
Large controller (198x110x59 mm)	CLMERL4N	230 VAC	6	10	0	4	4	24	300 mA	1
	CLMERL6N	24 VAC	6	10	0	4	4	24	600 mA	1
	CLMERL8N	230 VAC	6	6	4	4	4	24	300 mA	1
	IRM-RSC	Package with 10 terminal covers for large controllers								
Small controller (162x110x59 mm)	CLMERS4N	230 VAC	4	4	0	4	2	14	300 mA	1
	CLMERS5N	24 VAC	4	4	0	4	2	14	600 mA	1
	IRM-RSC	Package with 10 terminal covers for small controllers								

Details



More information centraline.com/merlinnx



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