PCD7.LRxx BACnet Room Controller

The Smart Solution for HVAC Room Control

PCD7.LRxx is a BACnet-compliant room controller offering
utmost energy efficiency and installation flexibility

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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

PCD7.LRxx covers a wide range of room control applications in an energy-efficient way:
▸ 2- and 4-pipe FCU
▸ 1–3 stage fan; variable speed fan
▸ Intake air with air quality control
▸ Chilled ceiling
▸ Underfloor heating
▸ Radiator 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 in plant controller and commanding free outputs from the PCD7.LRxx over the BACnet bus.

Energy Efficiency

Tested and proven high-end applications are provided with the controller. The RoomUp app guarantees guided configuration and testing of the wiring 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 pressureindependent control valves, 6-way valves, variable speed fans and indoor air quality control.
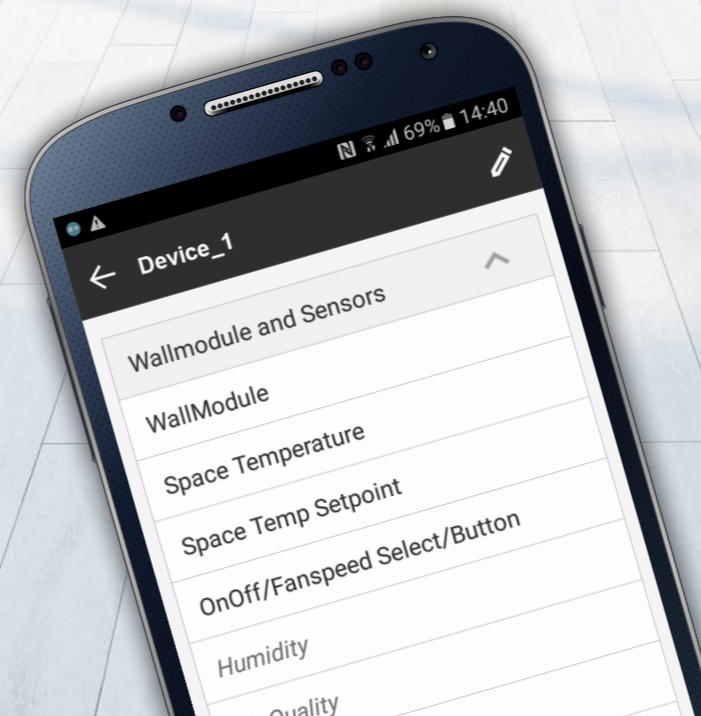
Installation Flexibility

PCD7.LRxx 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 wall modules (TR40, TR40-CO2, TR42 and TR42-CO2).
▸ 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»).

Investment Safety

PCD7.LRxx allows you flexibility for the future:
▸ Longterm security of investment and compatibility regarding future enhancements is guaranteed, as PCD7.LRxx 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.

PCD7.LRxx Benefits

Consultant	Investor	Contractor	Commissioner
▸ Seamless, open protocol ▸ Flexible configurable application covering a broad range of application needs	▸ Long-term investment protection as a result of open, seamless communication via BACnet ▸ Low initial and maintenance investment ▸ Green building accreditation	▸ Competitive total installation cost ▸ Easy set-up/commissioning ▸ Broad range of applications	▸ Fast and easy commissioning ▸ Plug & play application ▸ Seamless open communication

Device_1
Wallmodule and Sensors
WallModule
Space Temperature
Space Temp Setpoint
OnOff/Fanspeed Select/Button
Humidity
Quality

RoomUp App

Smart application configuration

PCD7.LRxx brings all the application exper-tise 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.
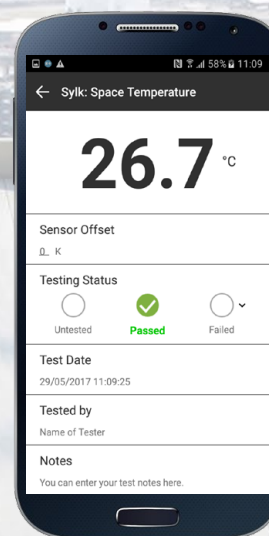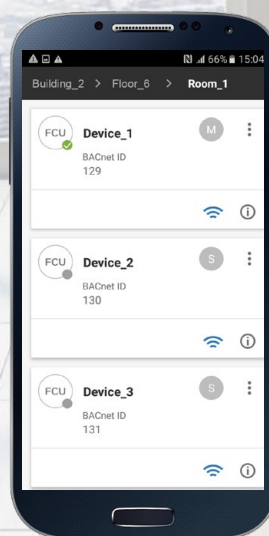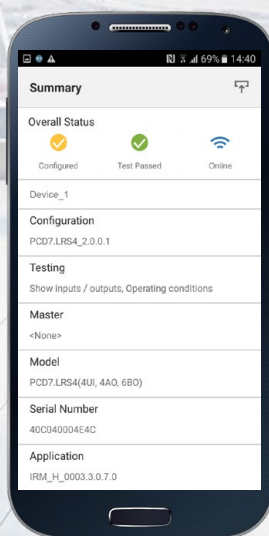
Efficient facility-wide application handling

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 auto-matically applied to all rooms using this template. All commissioning actions can be executed conveniently from the smart-phone via a wireless network. This enables the commissioning engineer to move freely throughout the building during the commissioning process.
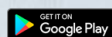
Unique commissioning experience

RoomUp offers a completely new way of room commissioning and final testing:

▸ Fast and easy single-person commis-sioning 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
http://sbc.do/Tc2kPraY

GET IT ON
Google Play

Overview of models

	Order Number	Power Supply	Analog Outputs	Universal Inputs	Relays	Triacs (24 V or 230 V)	Sum I/O	LED Output	24 VAC for field devices
Large Controller 198 × 110 × 59 mm	PCD7.LRL2	230 VAC	2	6	4	4	16	1	300 mA
	IRM-RLC	Package including 10 large terminal covers							
Small controller 162 × 110 × 59 mm	PCD7.LRS4	230 VAC	4	4	4	2	14	0	300 mA
	PCD7.LRS5	24 VAC	4	4	4	2	14	0	600 mA
	IRM-RSC	Package including 10 small terminal covers							
Commissioning	BACA-A	Wi-Fi adapter & RJ-45 cable							
	PCD7.L-RoomUp	SBC RoomUp License							
	RoomUp	Smartphone App for PCD7.LRXX commissioning requiring Android 5.0 or later. The App is available via Google Play Store							
Wall modules		Sylk-bus:TR40, TR40-CO2 without display / TR42, TR42-CO2 with display							
		Hardwired to controller IOs: PCD7.L63x, Q.RCU-A-Txxx, T7460x							