



M9-RBW

Room Control Module

Description

Solar-powered room control module with LCD and controls, with smart communication management for measuring room temperature and for wireless transmission of measured values, occupancy, setpoint and weekly schedule.

The M9-RBW supports the EnOcean radio standard ISO/IEC 14543-3-10 for direct communication with the M9-D15 radio small actuator or an EnOcean gateway (M9-EBox). It uses EEP D2-10-01* for connection to an EnOcean gateway. In combination with the M9-D15, the M9-RBW constitutes a functional unit for controlling the room temperature.

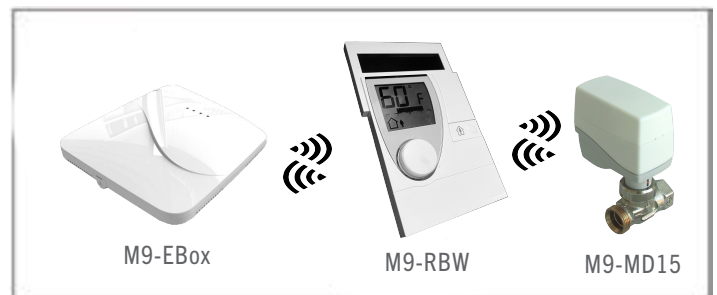
Radio Connection

Communication with the radio partner is cyclical, bidirectional and includes an intelligent synchronization process. If the radio communication between the M9-RBW and the M9-D15 is interrupted, an internal resynchronization procedure starts automatically.

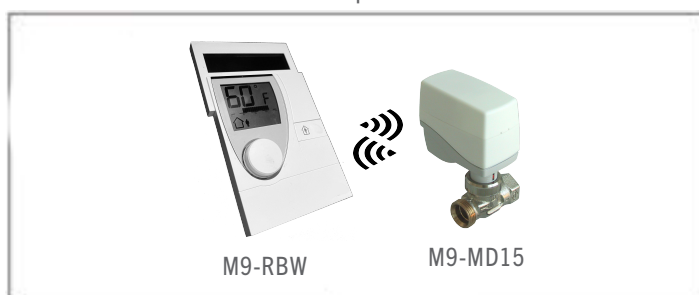
-Gateway operation



-Gateway and pair operation



- Pair operation



Applications:

- Hotels & Resorts
- Colleges & Universities
- New Construction
- Executive Offices
- Daylight Harvesting
- Private Offices
- Retrofits
- Conference Rooms
- Classrooms

All content subject to change

ver:071223

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TECHNICAL SPECIFICATIONS:

Part Numbers (Frequency Dependant)	M9-RBW (902 MHz - North America) M8-RBW (868 MHz - Europe and China) MJ-RBW (928 MHz - Japan)
Power	Dual power supply consisting of a solar cell and an internal energy storage unit with priority management. Internal energy storage unit with priority management.
Measured Value	Room temperature of spaces in homes or offices
Measuring System	Integrated digital sensor
Temperature Units	Can be set to °C or °F
Measuring Range	0 to 50°C or 32 to 122°F
Relative Measurement Precision	0.1 K
Display	LCD: -Time -Weekly Schedule -Icon display to indicate operating mode -Setpoint in the temperature units selected 10 to 30°C, in 0.1 K increments or 50 to 85°F, in 1°F increments
Controls	- Knob with push button for setting: setpoint, party mode, vacation mode, weekly schedule, time, date, display options (e.g. 12/24 hour display) and service data - Occupancy button: Manual switch between present / absent
Interfaces	- Radio telegram: EnOcean radio telegram, bidirectional - Operating range: Approx. 30 m in buildings (depending on building structure) - Duty Cycle: < 1% - Cyclic transmission / reception intervals
Transmission Power	< 10 mW
Illumination Strength	Min. 150 lux recommended
Operating Range	Approx. 30 m in buildings (depending on building structure)
Housing	Plastic housing, RAL 9010 (pure white) Other colors on request
Protections Class	III
Degree of Protection	IP30
Ambient Temperature	0 to 50°C
Ambient Humidity	During Operation: 20 to 85% rH, non-condensing; Out of Operation: 5 to 90% rH; non-condensing
Installation	Flexible mounting using screws or adhesive
Weight	0.22 kg
Dimensions	WxHxD: 90 x 153.7 x 26.7 mm

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