



Rada Outlook

Generated on 24.01.2020



Detailed description

Rada Outlook is a six outlet digital thermostatic mixing valve, with programmable timed flow for hand washing and showering applications, operated by a choice of touch sensors, non-touch sensors, or non-touch spout.

Features and benefits:

- Cost effective and flexible, whilst complying with legislative requirements.
- Automatically performs duty flush at intervals.
- Integrate auxiliary products such as a fan, pump or Passive Infra Red (PIR) occupancy sensor to the Outlook system and program specifically to application.
- Records automatic duty flush and supervised thermal disinfection data for legislation compliance.
- Easily programmable using Windows-based menus from a desktop computer, laptop or equivalent for easy access, download and interrogation of data.
- Connect multiple units to an IT Network or Building Management System, by making Modbus data available for systems integrators to link into. Up to 31 Rada Outlook units on each Modbus network.
- Incorporating T-Logic™ Digital Intelligence used in Rada Sense allowing the user to operate, communicate and exchange information with the mixing valve to deliver the ultimate in safety, hygiene and control.

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Product guidance - As Standard

Dimensions:

- Outlook mixer valve (h x w x d): 233 x 541 x 84 mm.
- Sensor box: (h x w x d): 134 x 255 x 37 mm.

Connections:

Flat faced union connections.

Approvals:

- WRAS approved (Water Regulations Advisory Scheme).
- BEAB approved.

Operation:

Sensor flow control: Non-touch ON/ OFF. Touch ON/ OFF. Non-touch ON/ OFF spout.



Materials:

- Mixing unit enclosure: PC/ ABS.
- Integral components: DZR brass, stainless steel, engineering plastic.

Temperature range:

- Factory pre-set: Default 38°C.
- Programmable range: Minimum 30°C

Programmable temperature range:

- Factory pre-set: Default 38°C.
- Programmable range: Minimum 38°C–47°C, maximum 33°C–50°C and default 30°C–50°C at start up, or full cold only can be selected.
- Minimum blend temperature differential from hot supply: 2°C.
- Optimum thermostatic control range: 30°C–50°C.
- Cold water range (recommended): 1°C–20°C.
- Hot water range (recommended): 50°C–65°C (85°C maximum - during disinfection).
- Temperature stability: $\pm 1^\circ\text{C}$ for recommended supply conditions.

Pressure:

- Maximum static pressure: 8 bar (800 kPa).
- Minimum pressure loss: 1.5 bar (150 kPa). Note: The pressure loss of a system (valve and outlet fitting) is the average of the two inlet pressures minus the back pressure, where the back pressure is determined by the flow resistance of any outlet fitting.
- Hot and cold pressure should be nominally equal. Maximum differential 3 : 1 either way.
- Minimum flow rate per outlet: < 5 bar maintained pressure 6 L/min, > 5 bar maintained pressure 8 L/min.

Flow rate:

- Factory settings:

- Flow time: 30 seconds.
- Duty flush cycle: 2 minutes.
- Duty flush waiting period: 3 days.

- Programmable range:

- Flow time: 5 seconds - 60 minutes.
- Duty flush cycle: 1 minutes - 59 minutes.
- Duty flush waiting period: 1 hour - 983 hours.

Duty flush not enabled at factory, programming required.

Environment:

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- Ambient temperature: 1°C–40°C.
- Maximum relative humidity: 95% non-condensing.
- Suitable for indoor use only.

IP rating:

- Mixer valve: IP24.
- Sensor box: IP20.
- PSU: IP45.

Electrical:

- Supply voltage: 100–240 V RMS 50–60 Hz. 1.5 A.
- Maximum load: 40 W at 12 V DC.
- Valve to sensor box cable length: 1.5 m.
- Sensor box to sensor cable length: IR - 6 m, Piezo - 3 m.

Product specification

Manufacturer

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Product reference	Rada Outlook (1.1621.099)
Required items (select all)	IR Sensor (1.1621.112) RS485 Converter and Software (1.1621.117) Piezo Hand Sensor (1.1621.085)
Required non-touch infra-red sensor mounted spout (select one)	150 mm IR Spout: 1.1621.136 190 mm IR Spout: 1.1621.132 225 mm IR Spout: 1.1621.137
Accessories	[None] [Rada Isolating Key Switch (2.1495.080)] - For temporary disablement of the Rada Outlook sensor box during cleaning or maintenance of showering. [Rada Outlook Outlet By-Pass



Adaptor (1.1621.115)] - To channel an unused outlet to an open outlet. Useful when there are less than six outlets utilised. Eliminates water 'dead spots' where bacteria can spread.

[Rada Outlook RS485 Socket (1.1621.116)] - RS485 cable to connect the RS485 converter to a sensor box within a network. The network is then accessible via laptop/ PC at that point.

[Rada Relay Box (2.1495.044)] - For use with the Rada Outlook sensor box to provide three switched relays for operation of pumps, lights and fans.