

## RADA MX1 20F

### INTELLIGENT CARE HIGH BASIN TAP WITH TEMPERATURE CONTROL

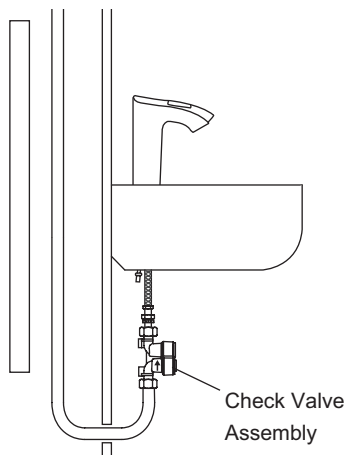
- Non Touch IR flow control.
- Non Touch capacitive temperature control.
- Brass valve engine (no plastics).
- Integral smooth bore copper outlet pipe.
- Open bore flow insert, removable for easy cleaning.
- Copper inlet tails.
- High internal valve flow velocity.
- Air tested at factory.
- Programmable duty flushing / Thermal disinfection.
- Integral 12 month data log.
- Networkable using modbus RTU over RS485.



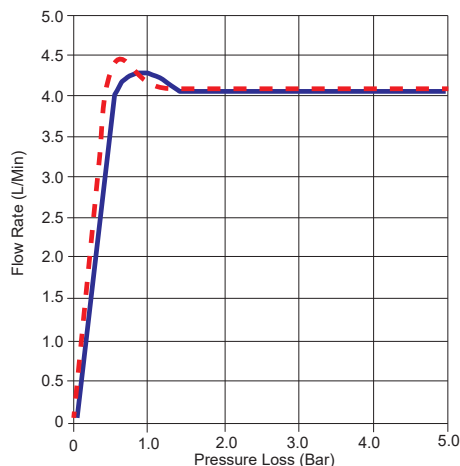
#### Specify as: Rada MX1 20F (72942-CP)

Intelligent thermostatic basin tap with non-touch flow (IR) and temperature (capacitive) controls, smooth bore copper outlet pipe with open bore flow insert, check valve/filter unit, pex lined hoses, programmable temperatures, run time, automated blend duty flush and cold flush, thermal disinfection, integral 12 month data log and optional connection to building network systems.

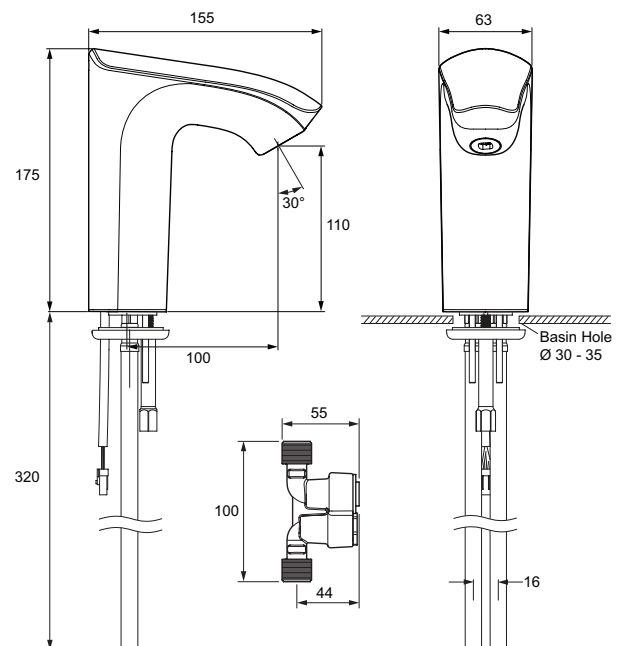
#### Installation Diagram



#### Flow Diagram



#### Dimensions



## TECHNICAL SPECIFICATION

### Operation

Flow: Infra red non-touch activation.

Temperature adjustment: capacitive sensor, allowing either non-touch adjustment by either holding or waving hand up to 35mm above temperature graphic, or touch control, using the temperature graphic pads.

### Approvals

WRAS  
KIWA UK  
BEAB EN 60730-2-8  
EN 61558-2-16 (Power Supply).

### Temperature

Factory pre-set: 39°C  
Factory pre-set temp. range - Min: 37°C, Max: 41°C  
Programmable range - Min: 33°C Max: 45°C  
Note: Full cold can be selected during programming  
Hot water temp: 55 - 65°C (max 80°C for disinfection)  
Temperature check mode: Allows measurement of blend as well as hot and cold inlet supplies.

### Pressure Range

**Note!** Hot and cold supply pressures should be nominally equal.  
Maximum static pressure: 10 bar  
Minimum dynamic pressure: 1 bar  
Maximum dynamic pressure: 5 bar

### Connections

Basin hole diameter range: 30 - 35 mm.  
Ware thickness: Max 38 mm.  
Copper tails: 10 mm Self-coloured and open ended to allow cutting to desired length.  
Checkvalve / filter / flow regulator assembly with integral isolation:  
1/2" BSP / 15 mm compression.

### Flow

Modes: On/Off (Timed, Blocking)  
Flow duration: Programmable (1 sec - 60 mins)

### Electrical Specification

Power supply unit is supplied.  
Power supply output: Rated voltage: 12 Vdc  
Rated current: 2.5 A  
Power supply input: Rated voltage: 100 Vac - 240 Vac  
Rated current: 1.0 A  
Frequency: 50/60 Hz

### IP Ratings

Tap: IP X4  
Power supply unit: IP X4

### Programming Options

Programming via Rada App using iOS tablet over Bluetooth  
Blend Duty Flushing:  
Operating modes: Off, Standard, Smart  
Activation time: Real time scheduling (hrs/mins)  
Interval period: 1hr - 1 Week  
Flush duration: 1 sec - 25 mins  
Set temperature: Programmable

Cold Only Flushing:  
Activation time: Real time scheduling (hrs/mins)  
Interval period: 1hr - 1 Week  
Flush duration: 5 sec - 10 mins

Thermal Disinfection:  
Operating modes: Off, Standard, Exponential  
Flush duration: 1 - 30 mins  
Minimum temperature: programmable

### Networking

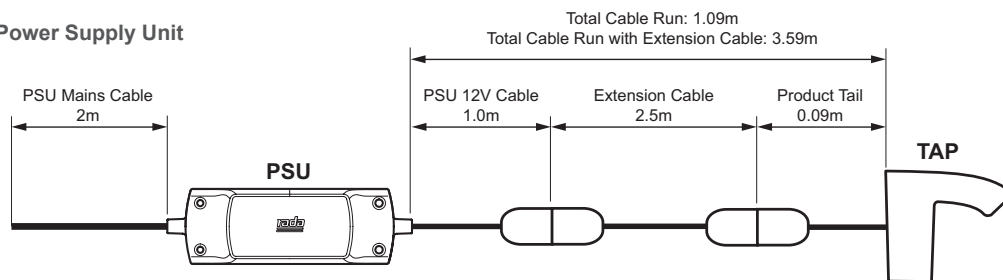
The MX1 Taps are networkable using modbus RTU over an RS485 connection.  
This enables the MX1 Taps to be linked to a Building Management System (Refer to separate IC Networking Datasheet - P6480).

### Networking

Part no. 76705-NA: Rada (ACI 9) 2.5m extension cable

Part no. 1.1664.234.1: Pall Filter Adaptor

### Connection to Power Supply Unit



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