



**THORNTHWAITE TECHNOLOGIES**  
THE SHOWER & WASHROOM SPECIALISTS

Data Sheet

## Rada Sense Digital Mixing Valve for Basins & Showers



[www.thornthwaite.com.au](http://www.thornthwaite.com.au)

# Rada Sense for Basins and Showers

**Rada Sense** digital mixing valve for basins or showers offers no-touch water activation and temperature adjustment, for improved hygiene, by minimising the risk of cross-infection of bacteria. The facility is able to program flow times, temperatures, duty flushing and perform thermal disinfection via a laptop computer or PDA.

## Connections

**Inlets and outlet:** 1/2" BSP M connection

## Materials

**Control panel cover:** chrome plated ABS

**Mixing unit enclosure:** PC/ABS

**Integral components:** DZR brass, stainless steel and engineering plastic

## Electrical

**Supply voltage:** 240 V AC 50-60Hz

**Max load:** 20 watt at 12 V DC

**Control panel cable length:** 3m supplied (extendible to 6m max)

## Temperature Range

**Factory pre-set:**

min 30°C, max 41°C, default 38°C

**Programmable range:**

min 30°C - 47°C, max 33°C - 50°C, default 30°C - 50°C

**Minimum blend temperature**

**differential from hot supply:** 2°C

**Stability:** +/- 1°C at supply conditions

**Recommended inlet hot water temperature range:** 50°C - 65°C

## Pressure Range

**Max static pressure:** 1000 kPa

**Min pressure loss:** 20 kPa

Equal supply pressures recommended (max inlet differential 3:1 either way)

## Flow

**Min flow rate:**

4 L/min (<500kPa maintained inlet pressure)

6 L/min (>500kPa maintained inlet pressure)

## Times

Times	Factory settings	Program range
Flow time:	8 sec (Basin) 30 sec (Shower)	5 sec - 60 min
Duty flush cycle:	2 min	1-59 min
Duty flush waiting period:	12 hours*	1 hr - 983hrs

\* Duty flush not enabled at factory, programming required

## Thermal Disinfection

Factory settings	Program range
Min temperature: 60°C	Disinfection temp range: 60°C - 85°C
Min time: 5 min	Disinfection duration: 0 - 50 min

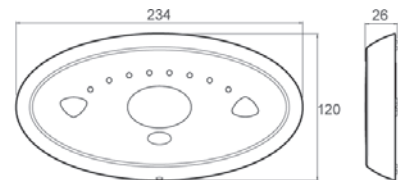
## Programming

PDA required to adjust factory settings, retrieve data, configure duty flush and disinfection cycles.

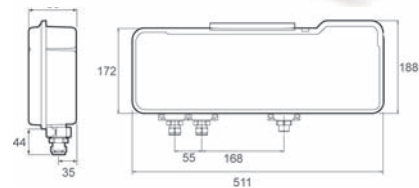
**Required:** MS Pocket PC 2002, Windows Mobile (for Pocket PC) and MS Windows Mobile 5.0; or Laptop computer (MS Windows with infra red USB adaptor)

*PDA and laptop are not supplied*

Rada Sense Control Panel (Shower sensor shown)



Rada Sense Digital Mixing Valve Cabinet



## Commissioning & Maintenance

Refer to the Product Manual for detailed instructions. For further information on replacement parts and service contact Thornthwaite on 1300 137 170.

## Warranty

5 years subject to manufacturer's conditions.

Description	Part No
Rada Sense digital mixing valve - basin sensor	1503680
Rada Sense digital mixing valve - shower sensor	1503684

## More Information

Download product manuals, data sheets, specification sheets, line drawings and brochures from our website.

[www.thornthwaite.com.au](http://www.thornthwaite.com.au)

## Approvals



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