DIGITAL WASHROOM CONTROLS

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# **TECHNICAL SPECIFICATION**

## **Sensor Box Features**

- Connection for Control Sensor
- Connect to multiple sensor boxes in a network (Modbus)
- Connection for motion (safety) PIR
- Connection for ventilation circuit
- Maximum number of sensor boxes in a single network = 31

# Usage

Suitable for indoor use only.

### **Materials**

Sensor Box: PC/ABS.

## **Configuration Tool**

The programmer software available is designed to run on Microsoft Windows 7, XP and Vista operating systems.

## **Standards and Approvals**

The Rada Sense upgrade kit complies with all relevant directives for CE marking.

Sense Network Control Panel		
Protection Rating	IP47	
Ambient Temperature	Greater than 1 °C, max. 40 °C	
Maximum Relative Humidity	95% non-condensing	
Supply Voltage	9 V DC	
Maximum Load	5 W	
Cable Length	3.5 m supplied	

Network Sensor Box	
Protection Rating	IP20
Ambient Temperature	Greater than 1 °C, max. 40 °C
Maximum Relative Humidity	95% non-condensing
Supply Voltage	12 V DC from the Mixer Valve
Maximum Load	20 W
Cable Length	1.5 m to the Mixer Valve

Parameter	Default Setting	Programmable Range	
Outlet Water Temperature	Shower = 38 °C Washbasin = 38 °C  Bath / Shower Mixer: Bath = 40 °C Shower = 38 °C	30 - 50 °C (full cold also available)	
Flow Time to Auto Shut-Off	Shower = 30 seconds Washbasin = 15 seconds  Bath / Shower Mixer: Bath = 300 seconds Shower = 30 seconds	min. 5 seconds max. 60 minutes	
Duty Flush Cycle		DISABLED (Duty Flush Type = None) Use Rada Universal Configuration Tool to enable and alter settings	
Duty Flush Type	None	None / Standard / Smart	
Duty Flush Interval	3 days	1 - 983 hours	
Duty Flush Warmup	1 minute	1 - 59 minutes	
Duty Flush Duration	2 minutes	1 - 59 minutes	
Scheduled Flush Time	02:00 am	24 hour clock	
Duty Flush Temperature	36 °C	30 - 45 °C	
Thermal Disinfection	Use Rada Universal Configuration To	Use Rada Universal Configuration Tool to enable and alter settings	
Thermal Disinfection Type	Standard	Standard / Exponential / Standard cold supply / Exponential cold supply	
Max. Warmup Time	2 minutes	1 - 59 minutes	
Target Disinfection Time	5 minutes	1 - 59 minutes	
Disinfection Timeout	10 minutes	1 - 59 minutes	
Target Temperature	60 °C	60 - 80 °C	

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# Specification Enquiries

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The company reserves the right to alter product specification without notice.

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## RADA INFORMATION RECORDING & MONITORING







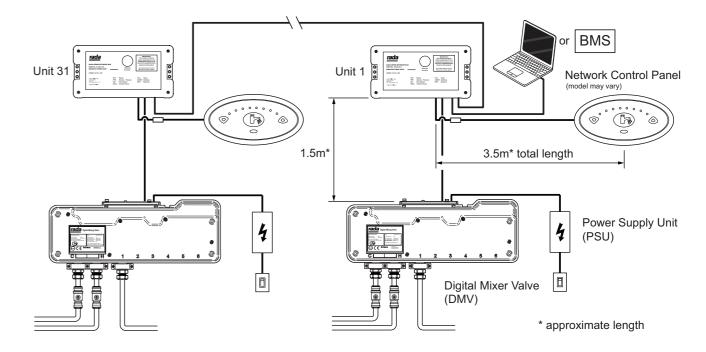


- Rada Information Recording & Monitoring Upgrade Packs are available for Rada Sense Washbasin, Shower. Bath Shower Mixer and Dual Shower
- Saves time and saves resources
- Remotely program temperature, flow times and duty flush settings
- Datalog and extract usage, duty flush and thermal disinfection data for Legislative compliance
- Program valves and access data through an intuitive Windows based Configuration Tool
- USB connection to laptop/PC. Modbus protocol connection to Building Management Systems
- Holds data detailing last 12 months duty flush history and the latest supervised thermal disinfection data
- Connectivity for auxiliary functions such as PIR (Passive Infra Red)
   Occupancy Sensors, Extractor Fans and System Key Switches
- Link up to 31 Rada Sense units together
- Upgrade pack choice dependent on Sense valve manufacture date & application

Universal Configuration Tool



# Wire Length Schematic



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# **UPGRADE PACK SELECTION**

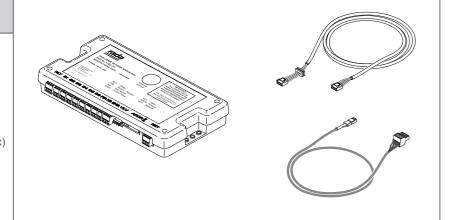
- Each installed Rada Sense valve requires one Upgrade Pack.
   Only one Universal Configuration Tool is required per site.
- Upgrade Pack choice is dependent on:
  - Rada Sense manufacture date
  - Rada Sense product type

## **UPGRADE PACK A**

Rada Sense products manufactured after July 2014 are 'network-ready'.

Pack contents:

- Sensor box
- 2 sets of cables (valve-to-box, interface-to-box)
- Installation manual (IUG)

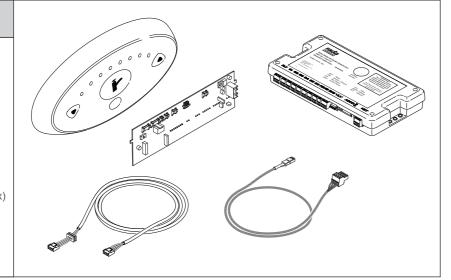


## **UPGRADE PACK B**

Rada Sense products **manufactured before July 2014** are not network-ready. Pack B is available in four options, Basin, Shower,
Dual Shower and BSM.

Pack contents:

- Sensor box
- Replacement Interface and Valve PCBA
- 2 sets of cables (valve-to-box, interface-to-box)
- Installation manual (IUG)



## UNIVERSAL CONFIGURATION TOOL

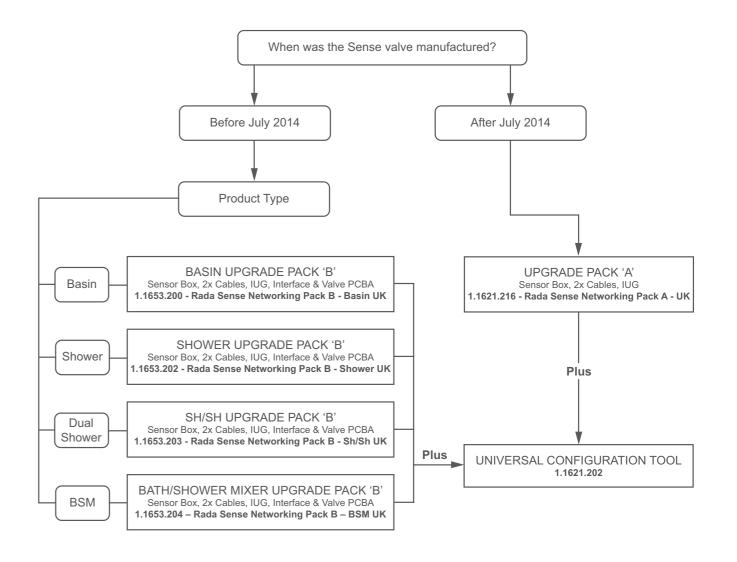
Pack contents:

- Rada RS485 USB cable
- Rada Modbus Universal Configuration Tool



See flow chart opposite to help specify the right product for your installation.

# **UPGRADE PACK SELECTION**



### Specify as:

### All Products Upgrade Pack A

Part No. 1.1621.216 - Rada Sense Networking Pack A (UK)

# Basin Upgrade Pack B

Part No. 1.1653.200 - Rada Sense Networking Pack B Basin (UK)

### Shower Upgrade Pack B

Part No. 1.1653.202 - Rada Sense Networking Pack B Shower (UK)

## **Dual Shower Upgrade Pack B**

Part No. 1.1653.203 - Rada Sense Networking Pack B Sh/Sh (UK)

# Bath/Shower Mixer Upgrade Pack B

Part No. 1.1653.204 - Rada Sense Networking Pack B BSM (UK)

#### For each site:

Universal Configuration Tool

Part No. 1.1621.202 - Universal Configuration Tool