

Draft Specification awaiting review

Note to reviewers and viewers:

I suggest that once the specification has been proof-read and updated then the clause should be copied twice and edited to be model specific in each clause

Red text or underline: is usually a question:

Is the information correct?

I have found reference to it but no supporting evidence if it is relevant or not

can you provide correct information?

or should it be removed?

Blue Text or underline: Usually optional information

To be edited by the project specifier

Some times to be added to, chosen from or deleted, if not relevant to the job

Green text: a note to me to edit in the next iteration or next product specification

Blue underlined text: Usually a hyperlink

Please provide feedback to Brian Murphy to update until completion

Y53 CONTROL COMPONENTS - MECHANICAL

To be read with Preliminaries A10-A55/General Conditions

8 BSI CEN ISO DOCUMENTS:
ISO ____: ____: IP **Title date?**

9 EC DIRECTIVES:
EC Electromagnetic Directive 2004/108/EC &
Low Voltage Directive - 2006/95/EC Safety Of Electrical Equipment

10 OTHERS
NOMS **Title date issuing body?**

110A WALL SURFACE MOUNTED WATER LIGHTING AND POWER CONTROLLER:

Reference Drawings:

Wallgate's: [_____]

Architect's: [_____]

Services Engineer's: [_____]

Location: See Services Equipment schedule: [_____]

Background: **[brick/block/IPS panelling/timber/metal pre fabricated walls]**

Manufacturer: Wallgate Ltd. Crow Lane, Wilton, Salisbury, Wiltshire, SP2 0HB, England

T 01722 744594 F 01722 742096

E sales@wallgate.com W www.wallgate.com

ISO 9001 (Quality management assessment)

Local/Project Contact: **[Name of representative]**

T [_____] F [_____] M [_____]

Product Reference: WDC Electronic Controllers

Model number:

WDC 100 - Single cell water control.

WDC 200 - Two cell water control.

WDC 400 - Two cell water, power and light controller.

Functions: All WDC Controllers:

- Areas of use: [
 - **Prison cells (NOMS 'Safer Cell' accepted)**
 - **Secure mental health rooms**
 - **Police cells**
 - **Immigration centres**
 - **Public conveniences**
 - **Schools**
 - **Hospitals]**
- **Designed to operate in and serve:**
 - **Secure cell environments**
 - **Communal environments,**
- **Designed to operate all sanitaryware requirements including singular and banks of:**
 - **Showers**
 - **WC's**
 - **Washbasins**
 - **Baths**

- Power Supply: single 13 amp, 115-230 volt power supply, 60 Watts, 2 Amp Fuse.
- Control: up to 8 No. different outlets.

WDC electronic controllers

- An electronic controller range with the ability to manage: water only or water, lighting and power to one or two rooms.
- Incorporating features such as timed flow, purge cycles, time slots and lock outs, they also log and store individual outlet activity for analysis.
- Can be used locally or networked.
- Literature: <http://www.ribaproductselector.com/Docs/5/07875/external/COL579834.pdf>
- **Is this available on the Wallgate website?**

Key Features of all units:

- easily programmable - locally or networked
- fully 'plug and play'
- fully programmable timed flow and lock outs
- hygiene purge cycle
- easily accessible automatic data logging of all water outlet activity
- independent control of multiple outlets
- low voltage control of water and lights
- real time clock for time slot allocation
- remote shut down facility
- standalone or full BMS integration
- piezo and/or infrared activation capable
- fail safe outlets should power be cut

Key Benefits of all units:

- individual outlet or global setting capability
- provides evidence of hygiene flush activity
- highly energy and water efficient
- prevents flooding and other abuse
- enables combination of activation sensors to be used
- outlets automatically close if power fails to prevent flooding
- highly cost effective

Additional function of each model:

WDC 100 Controller:

- **x** No. additional inputs to drive various functions, including: [
 - dual flushing
 - remote flush
 - remote cell shut down]
- Operates up to: 4 No. solenoid valves
- Single room electronic controller managing the water to a maximum of four outlets.
- Can also be used to operate four identical outlets, plus auxiliaries such as room water shutdown switches.
- Manual: <http://www.wallgate.com/uploads/product-files/Product%20Manual%20WDC100%20Series%20Rev%202013.pdf>
- Drawing: <http://www.wallgate.com/uploads/product-files/Drawing%20WDC100%20Electronic%20Control%20Unit%20Rev%20203.pdf>

WDC 200 Controller:

- Operates all sanitaryware requirements including: showers for 2 cells.
- **6** No. additional inputs to drive various functions, including: [
 - dual flushing
 - remote flush
 - remote cell shut down]
- Two room electronic controller managing the water to a maximum of four outlets.
- Can also be used to operate eight identical outlets, plus auxiliaries such as room water shutdown switches.
- Manual: <http://www.wallgate.com/uploads/product-files/Product%20Manual%20WDC200%20Series%20Rev%202013.pdf>
- Drawing: <http://www.wallgate.com/uploads/product-files/Drawing%20WDC200%20Electronic%20Control%20Unit%20Rev%20203.pdf>

WDC 400 Controller:

- Multi-channel, 2 cell controller with separate circuits: [
 - power ring main
 - lighting circuits].
- **Dual flush and different flushing methods are available.**
- **x** No. additional inputs to drive various functions, including: [

- dual flushing
 - remote flush
 - remote cell shut down]
- Two room electronic controller managing the water, lights and power to a maximum of four outlets.
 - Can also be used to operate eight identical outlets, plus auxiliaries such as room water shutdown switches.
 - Manual: <http://www.wallgate.com/uploads/product-files/Product%20Manual%20WDC400%20Rev%203.pdf>
 - Drawing: See Manual page 13

3rd Party evaluation:

- WDC100: NOMS 'Safer Cell' accepted
- Legal minimum: CE Marked Self Declaration
- Approvals: CE Marked
- EC Electromagnetic Directive 2004/108/EC & Low Voltage Directive - 2006/95/EC Safety Of Electrical Equipment
- Declaration Of Conformity dated: 30/01/2012, 03/12/2012, 01/03/2010
- Model: WDC100, WDC200, WDC400

- ~~Enhanced Capital Allowance scheme~~
- ~~Energy Technology Product List (ETPL)~~
- ~~Energy Star rating~~
- ~~Government Buying Standard~~
- ~~Green Tick Buying Solutions website~~

Servicing frequency:

LCD display indicates recommended service is required at ____ cycles on system usage counter
Or annually.

Servicing actions: _____

Literature:

- WDC100 SPEC_____.doc Issue: _ (at time of specification)
- WDC200 SPEC_____.doc Issue: _ (at time of specification)
- WDC400 SPEC_____.doc Issue: _ (at time of specification)

Surround/Substrate suitability: brick/block, IPS panelling, timber or metal pre fabricated walls

Arrangement: surface mounted

Materials:

Body: [_____]

Ingress Prevention IP rating: IP55 to ISO _____

Finish: [_____]

Colour: [_____]

Gloss level: Average is __ GU but it is dependent on colour.

Finish Performance Classifications: [_____]

Service access: Front access.

WDC100 & WDC200:

- Screwed front panel, with 4 securing points

WDC400

- Service panel: Hinged front door
- 2 hinges and key lock
- Additional access cover to mains isolator and circuit breakers

Dimensions:

WDC100 & WDC200:

Overall Size: (w x h x d): 200 x 150 x 83 mm

Unit Size: (w x h x d): 200 x 120 x 80 mm

WDC400

Overall Size: (w x h x d): 460 x 280 x 133 mm

Unit Size: (w x h x d): 415 x 280 x ____ mm

Weight:

- WDC100 & WDC200: __ kg.
- WDC400: __ kg.

Actuation: remote buttons or IR detectors and BMS

Indicators:

LCD display: Service Required

System usage counter.

Installation:

Installation & Commissioning instructions: An instruction leaflet is supplied with the product

Operation Manual: full operations manual is available via the Wallgate website.

Arrangement: unit is designed for front service access

Background: [brick/block, IPS panelling, timber or metal pre fabricated walls]

Fixing: surface mounted through projecting predrilled plates, creating air gap behind box

Draft 1: 14 Dec 16

Fastenings: See Product Manual

- 4 No. round head screws, (supplied)
- Size:
 - WDC100 & WDC 200 No. 6 diameter, length to suit background
 - WDC400 No. 9 diameter, length to suit background
- Type: plugs to suit background

Mounting height: [] mm. above finished floor level

Point of Supply: 13 A fused double pole switched spur located maximum 1 m adjacent to appliance.

Connections:

WDC100:

- Electrical Power Ratings: 115–230 V, AC, 50 Hz, single phase, 60 W, 2 amp fuse.
- Input stereo jack plugs: 7 No. for touch buttons or IR sensors; 12v DC
- Output Sockets: 4 No. for water valves; 12v DC
- 2 No. RJ45 network sockets

WDC200:

- Electrical Power Ratings: 115–230 V, AC, 50 Hz, single phase, 60 W, 2 amp fuse.
- Input stereo jack plugs: 14 No. for touch buttons or IR sensors; 12v DC
- Output Sockets: 8 No. for water valves; 12v DC
- 2 No. RJ45 network sockets

WDC400:

- Electrical Power Ratings: 115–230 V, AC, 50 Hz, single phase, 60 W, circuit breakers.
- Input stereo jack plugs: 28 No. for touch buttons or IR sensors; 12v DC
- Output Sockets: 12 No. for water valves; 12v DC
- 2 No. RJ45 network sockets
- 1 No. 25 mm. diameter electrical supply inlet
- 8 No. 20 mm diameter cable gland apertures fitted with blanking plugs
 - 6 No. for lighting
 - 2 No. for power

Earth bonding:

Through earth conductor in mains cable.

Installer to follow installation regulations for bonding pipework.

Water: No water passes through the Unit

Project configuration by installer: []

Provide temporary protection until hand over.

At hand over remove temporary protection and leave clean.

Provide 1 clean copy of operating manual at hand over

Warranty: 12 month warranty as defined in Wallgate T&C's Revision 2016

Commissioning: <http://www.wallgate.com/services/onsite-commissioning-services>

Service Contracts: <http://www.wallgate.com/services/maintenance-contracts>

Full After Sales Support: <http://www.wallgate.com/about/our-services>

Appendix/Clause(s) on previous page(s)

NB: NOTES ON EDITING SPECIFICATIONS:

Use as guidance, a standalone appendix or merge into work section.

Delete all of the Information on this and other pages of guidance notes, excluding the page break above, down to the end of GBE compatibility URLs (website addresses), when adding this work section or clauses to a project specification or purchase order.

Edit the clauses by selecting the clauses required, deleting any not required, by editing the [blue text which often describes options available] within square brackets to suit the project; or edit the specification to suit the procurement method.

Remove all square brackets using search for [and replace with nothing and search for] and replace with nothing.

Replace blue text with black text by selecting all and choosing auto or black colour text.

There are clauses in Red text in the Specification these are examples of project specific versions of the generic clauses that are included for guidance and are likely to be deleted or edited if they are useful to the project.

Remove any grey tone by selecting all text, and select Format > Borders and Shading > Shading > No fill > Okay.

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REV Revisions

Revision No.	Description	Author	Date
A00	Thrii A04 File saved as WDC Controllers	BRM	14/12/16
A00	Extracted NBS website specification and guidance Wallgate-NBS Electronic-Water-Management-ControlsWDCControllers.pdf	BRM	14/12/16
A01	Edited to NBS format and GBE Robust Specification level of detail	BRM	14/12/16
A01	Additional information from Walgate WC literature	BRM	14/12/16
A01	Hand copied data from 'Declaration of Conformity.PDF'	BRM	14/12/16
A01	Issue to CA at CACL	BRM	14/12/16
	Pending		