IONIX-UV
SERIES 8

COMMERCIAL & INDUSTRIAL

WRAS-approved UV water disinfection system. For the disinfection of clean water to meet relevant water standards. Systems are programmable logic controller (PLC) based with multifunction text display controller systems.

Applications
✓ Medium to large scale drinking water supplies
✓ Process water
✓ Water cooling supplies
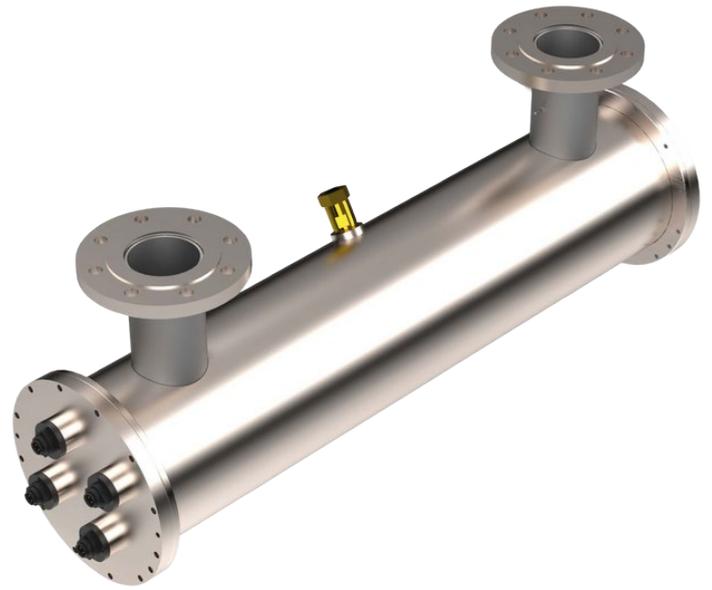✓ Medium to large-scale industrial systems
✓ Water recycling

Temperatures
✓ Recommended water temperature 5-45°C
✓ Possible temperature range 0-60°C
✓ Maximum WRAS approved temperature 23°C

Regulatory
✓ WRAS Approval No: 2304333

Technical description
✓ Concentrically arranged low-pressure lamp UV System
✓ Removable endplate design for ease of maintenance

Flow rates (m³/hr)	SERIES 8 1M	SERIES 8 2M	SERIES 8 4M
30 mJ/cm² @98% UVT	33	54	109
40 mJ/cm² @98% UVT	21	35	80
30 mJ/cm² @95% UVT	25	38	95
40 mJ/cm² @95% UVT	16	25	66

All flows are calculated at end of lamp life time
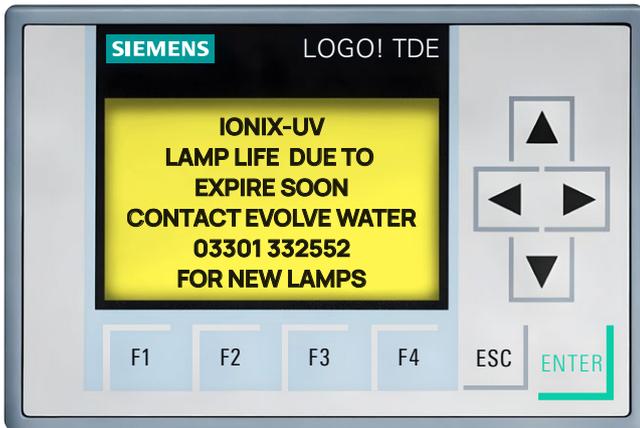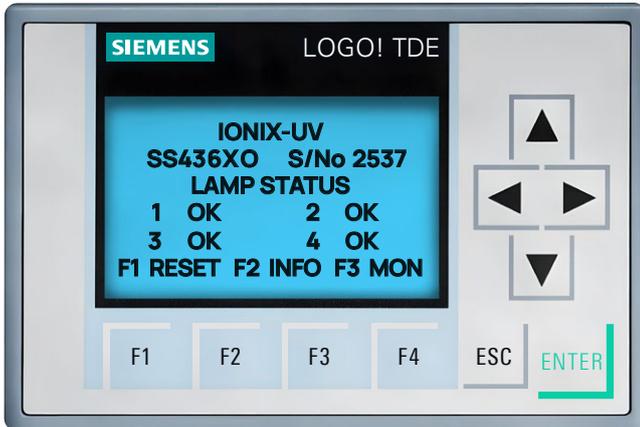Please contact us for further information regarding flow rates

UK MANUFACTURER

	SERIES 8 1M	SERIES 8 2M	SERIES 8 4M
Certification	WRAS approved (2304333)		
UV REACTOR CHAMBER			
Material construction	316L stainless steel		
Internal/external finish	Cleaned/ polished		
Lamp access	Single-ended		
Thermal drain	Yes		
UV intensity monitor	Yes		
Connection size	DN100 PN16		
Connection type	Flanged		
Dimensions	Refer to general arrangement drawing		
Volume approx	34 L	32 L	30 L
Total weight (dry) approx	18 kg	20 kg	22 kg
Operating pressure (max)	16 bar		
Installation	Horizontal/vertical		
Quartz sleeve type	High purity silica quartz		
Protection class	IP56		
UV LAMP			
Type	GERAMA150		
Lamp design	Single ended 4 pin low pressure amalgam		
Lamp power	135 W		
UVC output @ 254 nm	43 W		
Quantity	1	2	4
Lamp life	12 000 hours		
CONTROL PANEL			
Material	Powder coated mild steel		
Dimensions (W × H × D)	500 × 400 × 200 mm	500 × 400 × 200 mm	600 x 400 x 200 mm
Weight approx	15 kg	15 kg	22 kg
Mains power	220-240 VAC, 1 Ph, 50-60 Hz		
Power consumption	200 W	370 W	690 W
Protection	Type C - MBC		
Protection class	IP54		
Mains connection	DIN terminal		
Lamp power supply	Electronic ballast		
Control type	Programmable logic controller		
Interface	Text button display		
Communication	Modbus TCP/IP, PROFINET, SIMATIC S7		
OPTIONS			

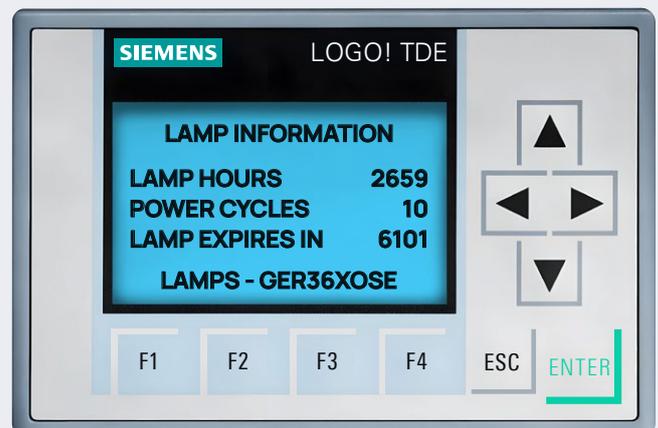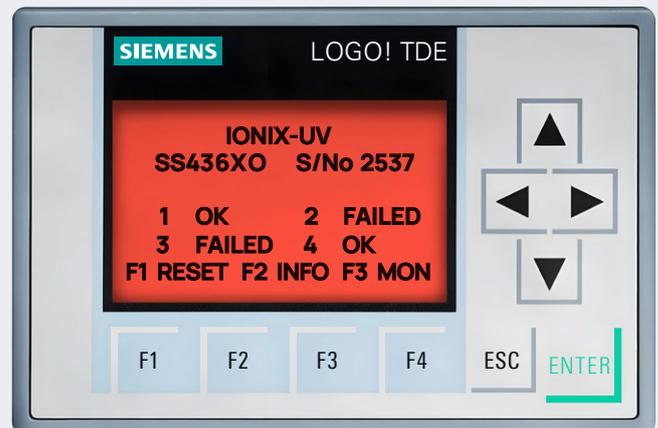|			
Remote start/stop	System healthy	Bespoke branded interface	Stop flow fault condition
Remote UV level	Remote screen	GSM text message system	LAN connection
Inlet/outlet configuration or size			

WRAS APPROVED PRODUCT

Controls

Front Panel
✓ Main isolator switch for system on/off
✓ LCD text display screen

SIEMENS LOGO! TDE

IONIX-UV
SS436XO   S/No 2537
LAMP STATUS
1   OK   2   OK
3   OK   4   OK
F1 RESET F2 INFO F3 MON

F1 F2 F3 F4 ESC ENTER

SIEMENS LOGO! TDE

IONIX-UV
LAMP LIFE DUE TO
EXPIRE SOON
CONTACT EVOLVE WATER
03301 332552
FOR NEW LAMPS

F1 F2 F3 F4 ESC ENTER

SIEMENS LOGO! TDE

IONIX-UV

LAMP LIFE EXPIRED
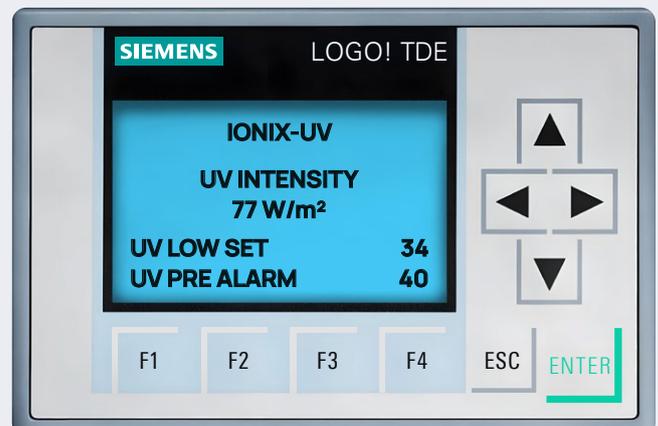PLEASE CHANGE LAMPS
CONTACT 03301 332552

F1 F2 F3 F4 ESC ENTER

Display information

✓ Lamp hours – counts total operating hours per lamp
✓ Power cycles – adds one each time the unit powers on
✓ Lamp expiry – countdown from 8,760 hours (1 year)
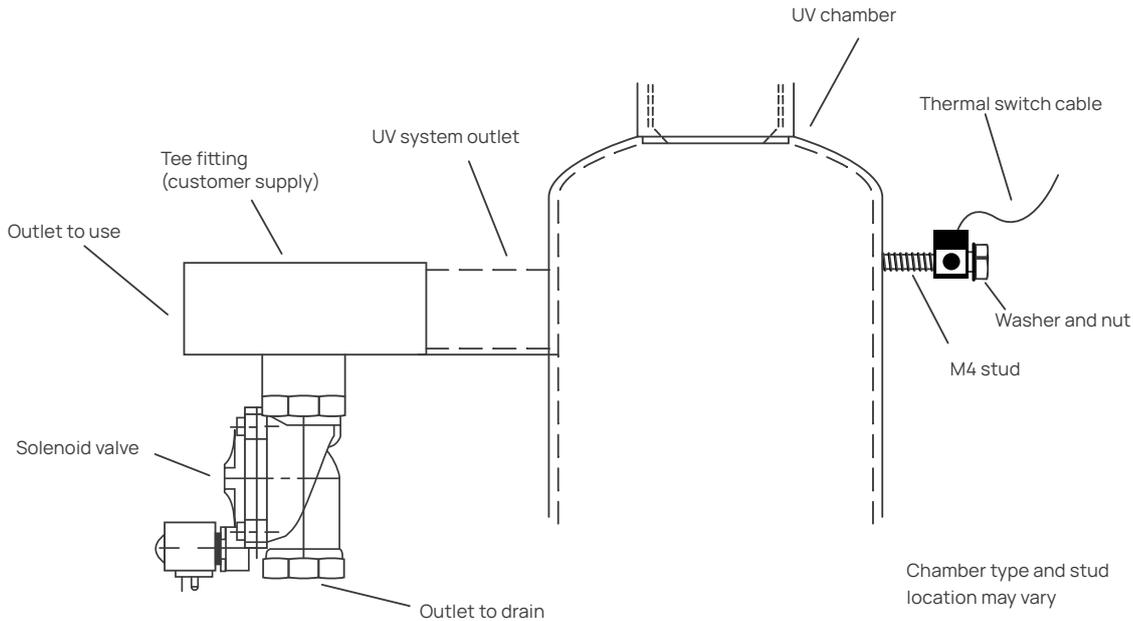✓ Lamp type – identifies lamp specification

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IONIX-UV
SS436XO   S/No 2537

1   OK   2   FAILED
3   FAILED   4   OK
F1 RESET F2 INFO F3 MON

F1 F2 F3 F4 ESC ENTER

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LAMP INFORMATION

LAMP HOURS   2659
POWER CYCLES   10
LAMP EXPIRES IN   6101

LAMPS - GER36XOSE

F1 F2 F3 F4 ESC ENTER

UV Intensity Monitor

✓ Displays current UV intensity and pre-alarm thresholds

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IONIX-UV

UV INTENSITY
77 W/m²

UV LOW SET   34
UV PRE ALARM   40

F1 F2 F3 F4 ESC ENTER

Thermal drain

✓ Thermal switch mounted externally on chamber to signal high temperature (set via PLC)
✓ Switch closes on rising temperature to activate solenoid
✓ ½" BSP normally closed solenoid valve supplied for chamber outlet
✓ Water supply must be available when solenoid opens
✓ Install solenoid on chamber outlet; outlet must drain safely or return to a large-capacity storage tank
✓ For vertical installations, position thermal sensor uppermost
✓ When activated, solenoid opens to drain chamber and reduce temperature

Labels: UV chamber, Thermal switch cable, UV system outlet, Tee fitting (customer supply), Outlet to use, Washer and nut, M4 stud, Solenoid valve, Outlet to drain, Chamber type and stud location may vary

✓ The thermal switch cable is to be attached as shown above. If mounting vertically, install the chamber so the sensor is uppermost
✓ The solenoid opens to allow flow through the chamber to drain
✓ The outlet of the solenoid should be taken to drain, or can be returned to a storage tank if the capacity is large enough to cause only a small temperature rise

Thermal drain display

✓ Shows chamber temperature and drain set point

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IONIX-UV

THERMAL DRAIN
CHAMBER TEMPERATURE
25 °C

DRAIN SET   30 °C

F1   F2   F3   F4   ESC   ENTER

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