

15 p.d.

PRO Data

Process and Hygiene monitoring



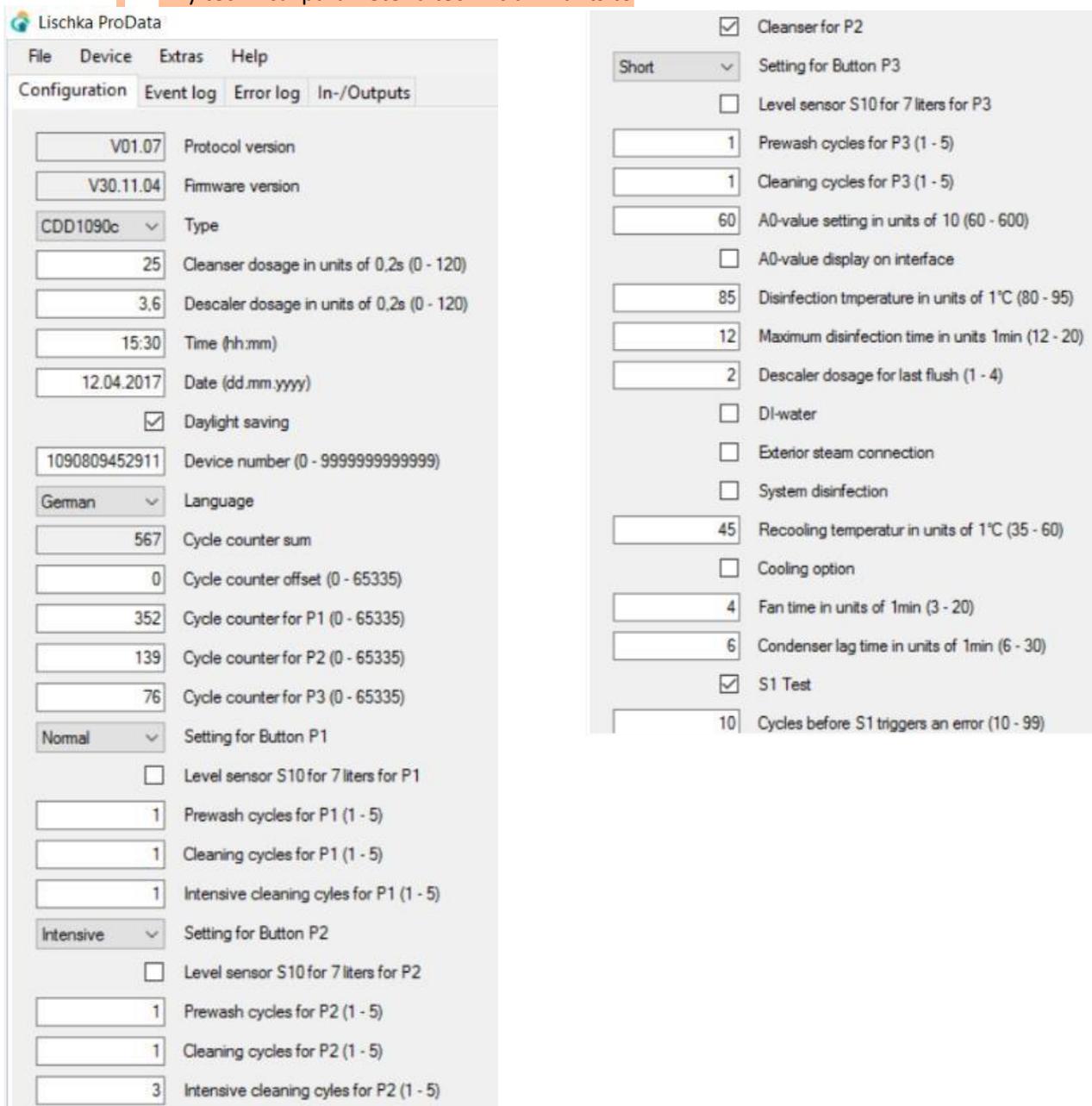
15 p.d.

Pro Data features

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Pro Data allows a technician to control all the device's parameters. By connecting a computer to the RS232 device interface via X10 on the motherboard you can access parameters such as:

- Machine number
- Amount of individual programs run (P1, P2, P3)
- Start/End- time of cycles
- A0 value settings
- Error tracking
- Any technical parameter a technician wants to



The screenshot displays the Lischka ProData software interface, which is used for configuring a washing machine. The interface is divided into two main panels: a left panel for general configuration and a right panel for advanced settings.

Left Panel (General Configuration):

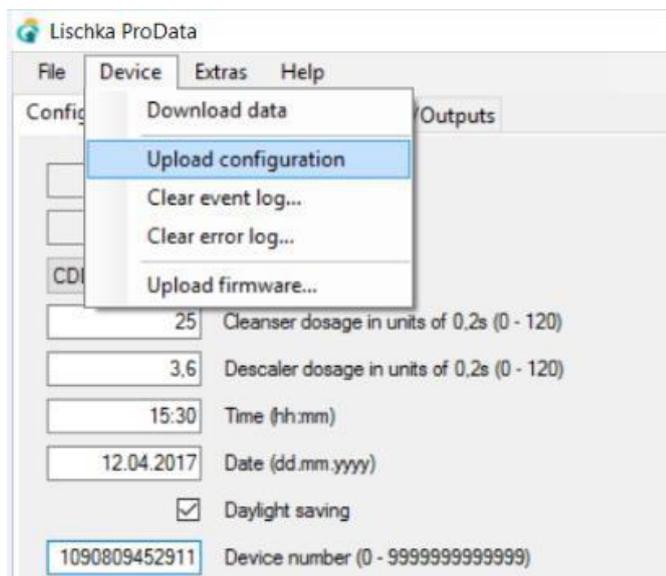
- File Device Extras Help** (Menu)
- Configuration** (Active tab), Event log, Error log, In-/Outputs
- Protocol version: V01.07
- Firmware version: V30.11.04
- Type: CDD1090c
- Cleanser dosage in units of 0,2s (0 - 120): 25
- Descaler dosage in units of 0,2s (0 - 120): 3,6
- Time (hh:mm): 15:30
- Date (dd.mm.yyyy): 12.04.2017
- Daylight saving:
- Device number (0 - 9999999999999): 1090809452911
- Language: German
- Cycle counter sum: 567
- Cycle counter offset (0 - 65335): 0
- Cycle counter for P1 (0 - 65335): 352
- Cycle counter for P2 (0 - 65335): 139
- Cycle counter for P3 (0 - 65335): 76
- Setting for Button P1: Normal
- Level sensor S10 for 7 liters for P1:
- Prewash cycles for P1 (1 - 5): 1
- Cleaning cycles for P1 (1 - 5): 1
- Intensive cleaning cycles for P1 (1 - 5): 1
- Setting for Button P2: Intensive
- Level sensor S10 for 7 liters for P2:
- Prewash cycles for P2 (1 - 5): 1
- Cleaning cycles for P2 (1 - 5): 1
- Intensive cleaning cycles for P2 (1 - 5): 3

Right Panel (Advanced Settings):

- Cleanser for P2:
- Short: Setting for Button P3
- Level sensor S10 for 7 liters for P3:
- Prewash cycles for P3 (1 - 5): 1
- Cleaning cycles for P3 (1 - 5): 1
- A0-value setting in units of 10 (60 - 600): 60
- A0-value display on interface:
- Disinfection temperature in units of 1°C (80 - 95): 85
- Maximum disinfection time in units 1min (12 - 20): 12
- Descaler dosage for last flush (1 - 4): 2
- DI-water:
- Exterior steam connection:
- System disinfection:
- Recooling temperatur in units of 1°C (35 - 60): 45
- Cooling option:
- Fan time in units of 1min (3 - 20): 4
- Condenser lag time in units of 1min (6 - 30): 6
- S1 Test:
- Cycles before S1 triggers an error (10 - 99): 10

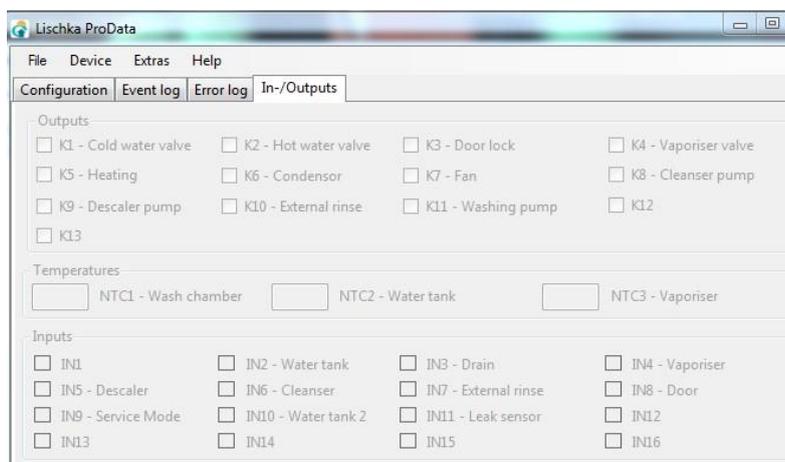
<input type="text" value="10"/>	Cycles before S9 triggers an error (10 - 99)
<input type="text" value="60"/>	Maximum warmwater temperature in units of 1°C (40 - 65)
<input type="text" value="15"/>	External rinse time in units of 1s (1 - 60)
<input type="checkbox"/>	Level sensor S10 for 7 liters for external rinse
<input type="text" value="567"/>	Cycles since last inspection (0 - 65335)
<input type="text" value="4000"/>	Cycles until inspection due in units of 500 (2000 - 10000)
<input type="checkbox"/>	Increase cycles until inspection due by 200
<input checked="" type="checkbox"/>	Acoustic signal
<input type="checkbox"/>	Automatic start on closing the door

To save any change of settings (like the machine number) you must go to Device > Upload Configuration. Otherwise modifications will not be saved.



The screenshot shows the 'Lischka ProData' application window. The 'Device' menu is open, displaying options: 'Download data', 'Upload configuration' (highlighted), 'Clear event log...', 'Clear error log...', and 'Upload firmware...'. Below the menu, various configuration parameters are visible, including 'Cleanser dosage', 'Descaler dosage', 'Time', 'Date', 'Daylight saving', and 'Device number' (1090809452911).

The tab In-/Outputs also enables a technician to test the machines proper functioning.



The screenshot shows the 'Lischka ProData' application window with the 'In-/Outputs' tab selected. The interface is divided into three sections: 'Outputs', 'Temperatures', and 'Inputs'. Each section contains a grid of checkboxes for testing different components.

-Outputs-			
<input type="checkbox"/> K1 - Cold water valve	<input type="checkbox"/> K2 - Hot water valve	<input type="checkbox"/> K3 - Door lock	<input type="checkbox"/> K4 - Vaporiser valve
<input type="checkbox"/> K5 - Heating	<input type="checkbox"/> K6 - Condensor	<input type="checkbox"/> K7 - Fan	<input type="checkbox"/> K8 - Cleanser pump
<input type="checkbox"/> K9 - Descaler pump	<input type="checkbox"/> K10 - External rinse	<input type="checkbox"/> K11 - Washing pump	<input type="checkbox"/> K12
<input type="checkbox"/> K13			
Temperatures			
<input type="text"/> NTC1 - Wash chamber	<input type="text"/> NTC2 - Water tank	<input type="text"/> NTC3 - Vaporiser	
-Inputs-			
<input type="checkbox"/> IN1	<input type="checkbox"/> IN2 - Water tank	<input type="checkbox"/> IN3 - Drain	<input type="checkbox"/> IN4 - Vaporiser
<input type="checkbox"/> IN5 - Descaler	<input type="checkbox"/> IN6 - Cleanser	<input type="checkbox"/> IN7 - External rinse	<input type="checkbox"/> IN8 - Door
<input type="checkbox"/> IN9 - Service Mode	<input type="checkbox"/> IN10 - Water tank 2	<input type="checkbox"/> IN11 - Leak sensor	<input type="checkbox"/> IN12
<input type="checkbox"/> IN13	<input type="checkbox"/> IN14	<input type="checkbox"/> IN15	<input type="checkbox"/> IN16

Event Log:

Enables you to see the result of last cycles.

Lischka ProData

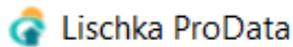
File Device Extras Help

Configuration **Event log** Error log In-/Outputs

Date	Start	Counter	Program	End	Termination
10.04.2017	08:18	00567	P2	08:34	A18 - Program terminated by user
10.04.2017	08:04	00566	P3	08:17	A18 - Program terminated by user
07.04.2017	13:08	00565	P2	13:29	A0-value reached
07.04.2017	12:18	00565	P2	12:38	A0-value reached
07.04.2017	12:17	00565	P2	12:35	A0-value reached
07.04.2017	11:43	00564	P2	12:02	A0-value reached
07.04.2017	11:18	00563	P2	11:38	A0-value reached
07.04.2017	10:53	00563	P2	11:12	A0-value reached
07.04.2017	10:27	00562	P2	10:45	A18 - Program terminated by user
07.04.2017	10:23	00561	P2	10:24	A04 - Drain clogged
07.04.2017	10:22	00560	P2	10:23	A04 - Drain clogged
07.04.2017	10:18	00559	P3	10:21	A18 - Program terminated by user
07.04.2017	10:16	00558	P3	10:17	A04 - Drain clogged
07.04.2017	10:13	00557	P3	10:15	A04 - Drain clogged
20.02.2017	08:00	00556	P2	08:15	A0-value reached
20.02.2017	06:31	00555	P2	06:46	A0-value reached
20.02.2017	05:20	00554	P1	05:36	A0-value reached
19.02.2017	23:48	00553	P1	00:02	A0-value reached
19.02.2017	22:24	00552	P1	22:37	A0-value reached
19.02.2017	21:55	00551	P1	22:09	A0-value reached
19.02.2017	20:41	00550	P1	20:55	A0-value reached
19.02.2017	19:37	00549	P3	19:50	A0-value reached
19.02.2017	18:57	00548	P1	19:13	A0-value reached
19.02.2017	14:44	00547	P3	14:59	A0-value reached
19.02.2017	10:46	00546	P2	11:02	A0-value reached
19.02.2017	07:59	00545	P1	08:13	A0-value reached
19.02.2017	06:21	00544	P2	06:35	A0-value reached
19.02.2017	05:27	00543	P1	05:43	A0-value reached
18.02.2017	22:09	00542	P1	22:26	A0-value reached
18.02.2017	15:46	00541	P2	16:01	A0-value reached
18.02.2017	14:08	00540	P2	14:22	A0-value reached
18.02.2017	12:31	00539	P1	12:47	A0-value reached

Error Log:

Focuses solely on all last error messages.



File	Device	Extras	Help
Configuration	Event log	Error log	In-/Outputs
Date	Time	Counter	Description
13.04.2017	13:03	00667	A06 - Power failure
13.04.2017	12:50	00667	A14 - Descaler empty
13.04.2017	12:49	00667	A06 - Power failure
13.04.2017	10:53	00667	A99 - Undefined error
13.04.2017	10:52	00667	A06 - Power failure
12.04.2017	14:36	00567	A14 - Descaler empty
12.04.2017	14:01	00567	A06 - Power failure
12.04.2017	14:00	00567	A14 - Descaler empty
12.04.2017	13:56	00567	A14 - Descaler empty
12.04.2017	13:56	00567	A06 - Power failure
12.04.2017	10:58	00567	A06 - Power failure
10.04.2017	10:11	00567	A99 - Undefined error
10.04.2017	08:04	00565	A06 - Power failure
07.04.2017	12:43	00565	A99 - Undefined error
00.08.2002	10:05	00565	A99 - Undefined error
07.04.2017	12:12	00564	A99 - Undefined error
07.04.2017	10:49	00562	A99 - Undefined error
07.04.2017	10:24	00561	A04 - Drain clogged
07.04.2017	10:23	00560	A04 - Drain clogged
07.04.2017	10:17	00558	A04 - Drain clogged
07.04.2017	10:15	00557	A04 - Drain clogged
07.04.2017	10:12	00556	A06 - Power failure
11.02.2017	13:16	00471	A06 - Power failure
11.02.2017	00:25	00471	A14 - Descaler empty

Infection Control – Traceability:

Information from Event and Error Log can then be exported (.txt or .xls files) as per examples bellow for anyone wishing to keep records of the cycles.

```

test - Editor
Datei Bearbeiten Format Ansicht ?
Event log for the Lischka bedpan washer

Type: Lischka CDD1090c
Device number: 1090809452911
Date: 12.04.2017
Time: 15:39

Date      Start Counter Program End      Termination
10.04.2017 08:18 00567 P2      08:34 A18 - Program terminated by user
10.04.2017 08:04 00566 P3      08:17 A18 - Program terminated by user
07.04.2017 13:08 00565 P2      13:29 A0-value reached
07.04.2017 12:18 00565 P2      12:38 A0-value reached
07.04.2017 12:17 00565 P2      12:35 A0-value reached
07.04.2017 11:43 00564 P2      12:02 A0-value reached
07.04.2017 11:18 00563 P2      11:38 A0-value reached
07.04.2017 10:53 00563 P2      11:12 A0-value reached
07.04.2017 10:27 00562 P2      10:45 A18 - Program terminated by user
07.04.2017 10:23 00561 P2      10:24 A04 - Drain clogged
07.04.2017 10:22 00560 P2      10:23 A04 - Drain clogged
07.04.2017 10:18 00559 P3      10:21 A18 - Program terminated by user
07.04.2017 10:16 00558 P3      10:17 A04 - Drain clogged
07.04.2017 10:13 00557 P3      10:15 A04 - Drain clogged
20.02.2017 08:00 00556 P2      08:15 A0-value reached

```

```

error - Editor
Datei Bearbeiten Format Ansicht ?
Error log for the Lischka bedpan washer

Type: Lischka CDD1090c
Device number: 1090809452911
Date: 13.04.2017
Time: 13:08

Date      Time Counter Description
13.04.2017 12:50 00667 A14 - Descaler empty
13.04.2017 12:49 00667 A06 - Power failure
13.04.2017 10:53 00667 A99 - Undefined error
13.04.2017 10:52 00667 A06 - Power failure
12.04.2017 14:36 00567 A14 - Descaler empty
12.04.2017 14:01 00567 A06 - Power failure
12.04.2017 14:00 00567 A14 - Descaler empty
12.04.2017 13:56 00567 A14 - Descaler empty
12.04.2017 13:56 00567 A06 - Power failure
12.04.2017 10:58 00567 A06 - Power failure
10.04.2017 10:11 00567 A99 - Undefined error
10.04.2017 08:04 00565 A06 - Power failure
07.04.2017 12:43 00565 A99 - Undefined error
00.08.2002 10:05 00565 A99 - Undefined error
07.04.2017 12:12 00564 A99 - Undefined error
07.04.2017 10:49 00562 A99 - Undefined error
07.04.2017 10:24 00561 A04 - Drain clogged
07.04.2017 10:23 00560 A04 - Drain clogged
07.04.2017 10:17 00558 A04 - Drain clogged
07.04.2017 10:15 00557 A04 - Drain clogged
07.04.2017 10:12 00556 A06 - Power failure
11.02.2017 13:16 00471 A06 - Power failure
11.02.2017 00:25 00471 A14 - Descaler empty
01.02.2017 05:27 00335 A03 - Insufficient wash pump action

```

F16 : *fx*

	A			
1	Error log for the Lischka bedpan washer			
2				
3	Type: Lischka CDD1090c			
4	Device number: 1090809452911			
5	Date: 13.04.2017			
6	Time: 13:08			
7				
8	Date	Time	Counter	Description
9	13.04.2017	12:50	00667	A14 - Descaler empty
10	13.04.2017	12:49	00667	A06 - Power failure
11	13.04.2017	10:53	00667	A99 - Undefined error
12	13.04.2017	10:52	00667	A06 - Power failure
13	12.04.2017	14:36	00567	A14 - Descaler empty
14	12.04.2017	14:01	00567	A06 - Power failure
15	12.04.2017	14:00	00567	A14 - Descaler empty
16	12.04.2017	13:56	00567	A14 - Descaler empty
17	12.04.2017	13:56	00567	A06 - Power failure
18	12.04.2017	10:58	00567	A06 - Power failure
19	10.04.2017	10:11	00567	A99 - Undefined error
20	10.04.2017	08:04	00565	A06 - Power failure
21	07.04.2017	12:43	00565	A99 - Undefined error
22	00.08.2002	10:05	00565	A99 - Undefined error
23	07.04.2017	12:12	00564	A99 - Undefined error
24	07.04.2017	10:49	00562	A99 - Undefined error
25	07.04.2017	10:24	00561	A04 - Drain clogged
26	07.04.2017	10:23	00560	A04 - Drain clogged
27	07.04.2017	10:17	00558	A04 - Drain clogged
28	07.04.2017	10:15	00557	A04 - Drain clogged
29	07.04.2017	10:12	00556	A06 - Power failure
30	11.02.2017	13:16	00471	A06 - Power failure
31	11.02.2017	00:25	00471	A14 - Descaler empty
32	01.02.2017	05:27	00335	A03 - Insuficient Wash pump actio
33	31.01.2017	19:10	00333	A04 - Drain clogged
34	05.01.2017	17:02	00129	A05 - Door opened during operatio
35	23.12.2016	08:22	00009	A06 - Power failure
36	22.12.2016	14:13	00008	A06 - Power failure
37	16.12.2016	10:19	00005	A06 - Power failure
38	16.12.2016	07:44	00000	A06 - Power failure

4.Options

Pro Data can also... be customized!

Network set-up

As a standard, all devices are equipped with an RS 232 interface. Hospital IT, if they have purchased ProData can then connect the devices to the hospital network and access devices via individual com ports.

It is possible for us to develop the product to meet customer requirements. It is possible for example to have various devices connected to the same Network, each individual device could then be accessed, settings changed and controlled remotely from a given access point/computer. Be its LAN/WLAN (TCP.IP) This would require a detailed specification from the customer of what is specifically required in order to estimate cost and develop accordingly.

