

# DataTrac Pro for Bluetooth-connected Pumps

## User Manual

Publication 1917 Rev 210604

### Introduction

#### Checking System Requirements

Ensure your PC meets minimum requirements for the DataTrac® Pro Software.

<b>Operating System</b>	Microsoft® Windows® 7, 8, 8.1, or 10
<b>Required Software</b>	DataTrac Pro Installer ( <i>included with installation</i> )
<b>Minimum Display Resolution</b>	1024 x 768
<b>Available Port</b>	USB 2.0

#### Checking Hardware Requirements

- USB Bluetooth® Adapter Cat. No. 877-94
- Pocket Pump TOUCH Sample Pump Cat. No. 220-1000TC
- AirChek Connect Sample Pump Cat. No. 220-4000

### Getting Started

#### Connecting Pump to PC

The pump communicates with a PC via USB Bluetooth connection (dongle) and DataTrac Pro Software (*Figure 1*).

**Note:** *USB Bluetooth Adapter Cat. No. 877-94 is the dedicated and required dongle for Pocket Pump TOUCH and AirChek Connect Pump.*



**Figure 1. Communication Train**  
(*Pocket Pump TOUCH shown*)

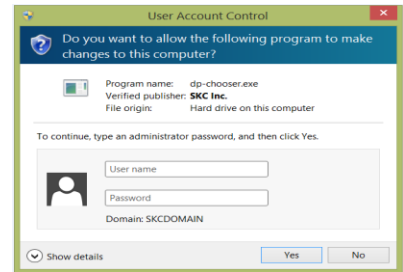
1. Insert the USB Bluetooth Adapter (dongle) in a USB port on the PC.
2. Download and install the DataTrac Pro Installer. See *Downloading/Installing DataTrac Pro Software* below.
3. Launch DataTrac Pro. **DataTrac Pro will only detect pumps that are powered on.** For optimal connection, ensure that pumps are near the PC.

#### Downloading/Installing DataTrac Pro Software

 **The DataTrac Pro Installer requires administrator privileges to install properly. DataTrac Pro must be installed separately under the Windows user account of each person who will use the software.**

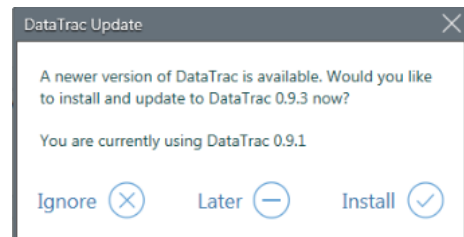
1. Download file located at  
[www.skinc.com/catalog/datatrac/DataTracProPPT/Setup.exe](http://www.skinc.com/catalog/datatrac/DataTracProPPT/Setup.exe).

2. Browse to download folder/flash drive, run the setup file, and follow wizard instructions. If the User Account Control display box appears, enter the administrator user ID and password.
3. When installation is complete, DataTrac Pro will launch automatically. Ensure that the dongle remains inserted in a USB port on the PC and pumps are powered **on** when launching and using DataTrac Pro.



## Updating DataTrac Pro Software

Launch DataTrac Pro Software. DataTrac Pro will scan automatically for available online updates. If an update is found, the user will be asked to install now, install later (user will be prompted to update each time DataTrac Pro is launched), or ignore (user will be directed to an Update Available link on the Help page).





During the update, the DataTrac Update box (above) will display a progress bar; when the download is complete, DataTrac Pro will launch automatically.

## Uninstalling DataTrac Pro Software

1. Access the Windows Control Panel on the PC.
2. Select Programs (Programs and Features in Windows 7).
3. Select DataTrac Pro.
4. Click Uninstall.


## Using this Manual

This manual provides graphical guidance to the user. Areas on screens that require user action are highlighted  or . Corresponding text descriptions/details are highlighted in a matching color.

## Interacting with DataTrac Pro Software Screens

Click tabs and buttons with mouse to activate or select items. Click in boxes and type using keyboard to enter required information.

## Setting Display Preferences for DataTrac Pro

 Before using DataTrac Pro, open the DataTrac Unit Display box to select display preferences for DataTrac Pro and set STP criteria (if required).

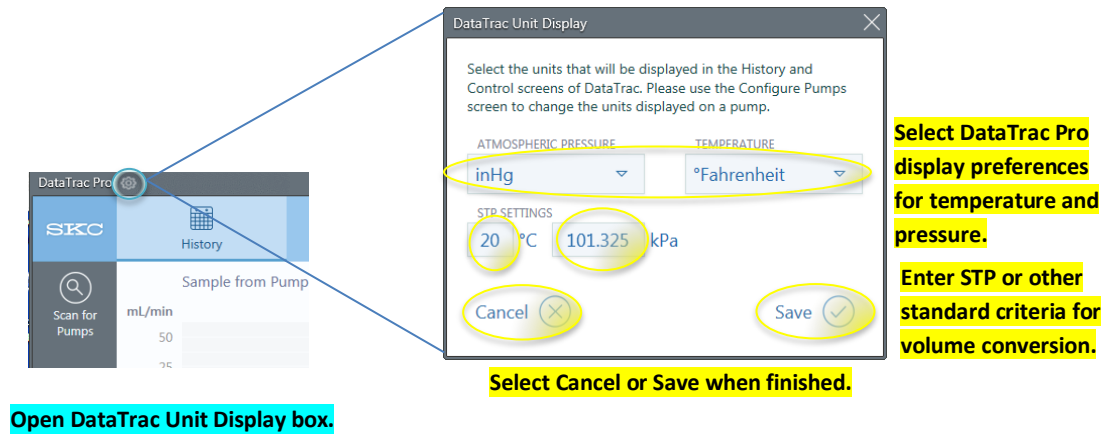



Figure 2. DataTrac Pro Unit Display Box

## Using DataTrac Pro Software

 Ensure that USB Bluetooth Adapter is inserted in USB port on PC. Pumps must be powered on to be detected by DataTrac Pro. For optimal connection, ensure that pumps are near the PC. Once communication is established between the PC and the pumps, the pumps will be kept in a wakened state until powered off.

### Downloading/Managing Sampling History History Tab

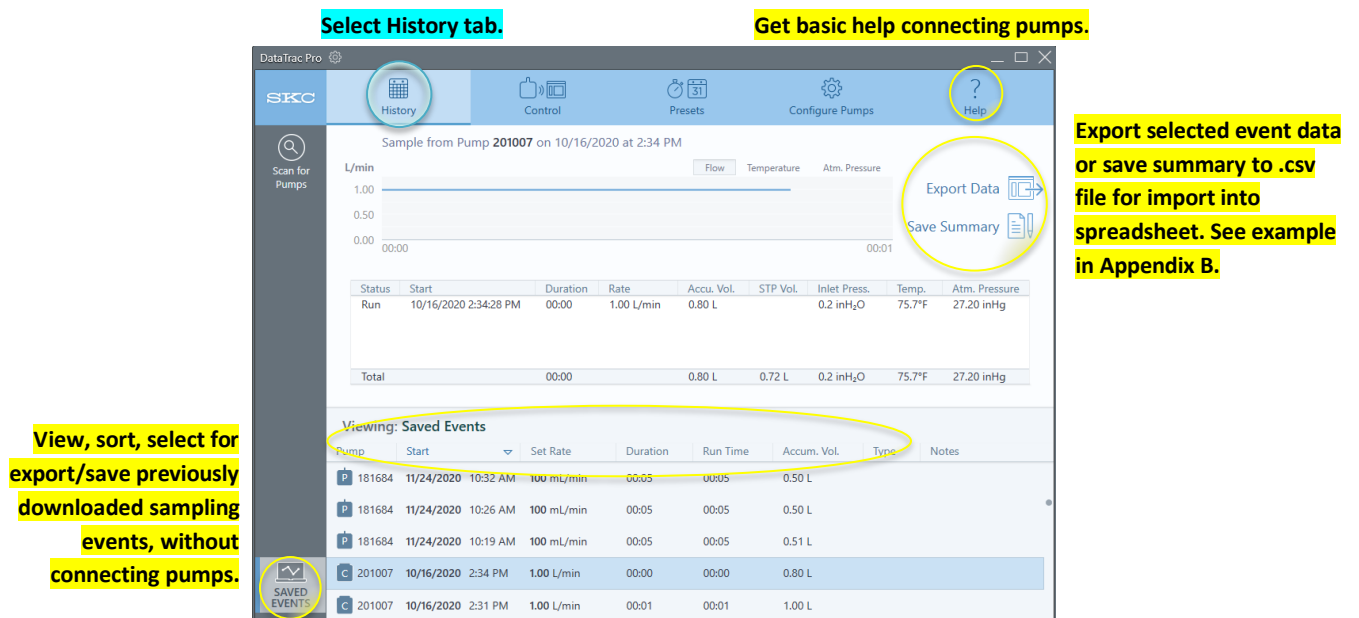



Figure 3. History Tab Prior to Pump Connection

## Detecting Pumps

 **Pumps must be powered on to be detected by DataTrac Pro. For optimal connection, ensure that pumps are near the PC.**

Once launched, DataTrac Pro scans for pumps connected by Bluetooth to the PC. Detected pumps are displayed as an icon and serial number in the Pump Display Bar. If pumps do not appear automatically in the bar, click Scan for Pumps.

### Select History tab.

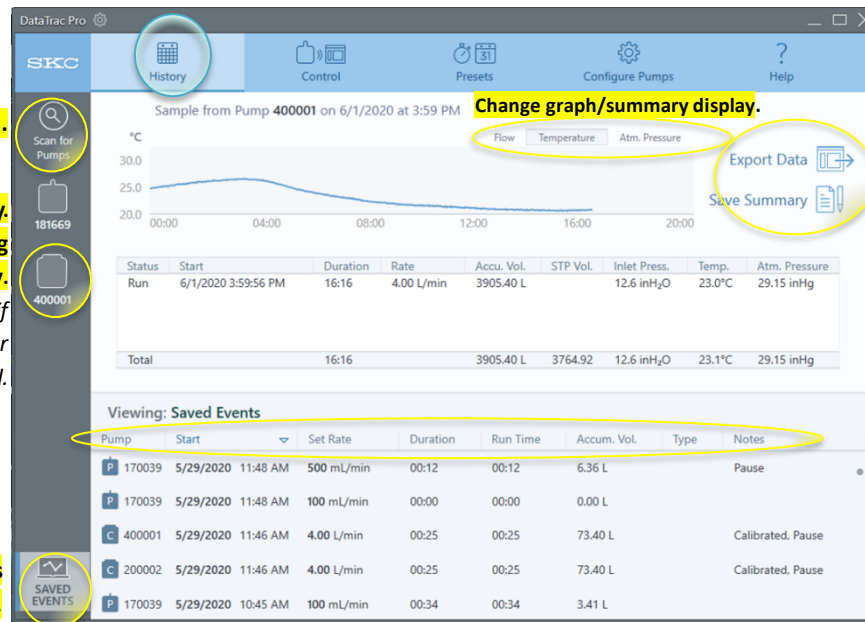
Scan for connected pump(s).

Select pump to download/view history.

Note: Stop pump before downloading history.

Note: "Pump busy" will display if attempted while pump is running or paused.

Display saved events from all pumps.



Export selected event data or save summary to .csv file for import into spreadsheet. See Appendix B.

Sort pump history or saved events by selecting column

Figure 4. History Tab Displaying Connected Pumps

## Controlling the Pump

### Control Tab



Figure 5. Display Before Run is Clicked

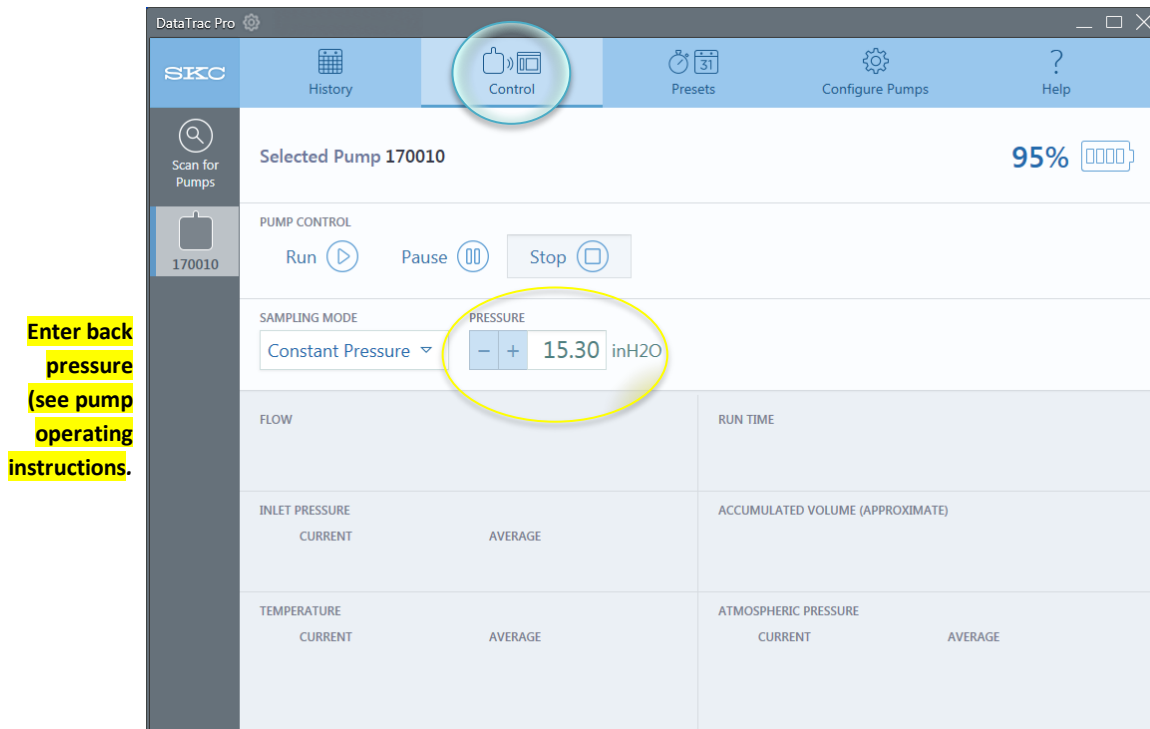


Figure 5a. Constant Pressure Mode Display Before Run is Clicked



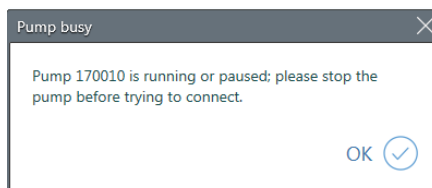
Figure 6. Display After Run is Clicked

## Programming and Uploading Sample Presets

### *Presets Tab*



Stop pump before programming presets. "Pump busy" will display if attempted while pump is running or in pause.



## Select Presets tab

**PRESET 1**

MODE  
☒ Constant Flow  
☐ Constant Pressure

FLOW RATE  
 133 mL/min

TIMING  
☒ Continuous  
☐ Intermittent

DURATION  
 00 : 00 : 06  
 Day(s) H M

ESTIMATED SAMPLE VOLUME  
 0.80 Liters

START TIME  
☐ No  
☒ Yes  
 TIME\*  
 03:30 PM HH:MM

\* The pump will automatically start at the prescribed time only after this preset is activated on the pump.

Copy

Copy Preset to Other Pumps

Copy preset 1 from PocketPump 170030 by selecting pumps from the list below:

170023  
 170043  
 170066

Cancel Copy Preset Now

**Select mode and timing (run type); change/enter flow rate and total duration.**

**Select/enter start time.\***

**Upload preset to selected pumps. Select first pump, press Shift and click on last pump listed to select all pumps.**

**PRESET 2**

MODE  
☒ Constant Flow  
☐ Constant Pressure

FLOW RATE  
 250 mL/min

TIMING  
☐ Continuous  
☒ Intermittent

CYCLES  
 120

SAMPLE  
 00 : 01  
 H M

PAUSE  
 00 : 01  
 H M

TOTAL SAMPLE TIME  
 2 hours

ESTIMATED SAMPLE VOLUME  
 30.00 Liters

Save

Cancel

**Select mode and timing (run type); change/enter flow rate, number of cycles,† total duration,† length of time pump samples, and length of time pump pauses during each cycle.**

**Select/enter start time.\***

**Save (upload) or Cancel preset.**

† These values are calculated based on the numbers entered. Changing one value will cause the other value to change.

Figure 7. Examples of Continuous and Intermittent Run Presets

## Configuring Pumps/Updating Firmware

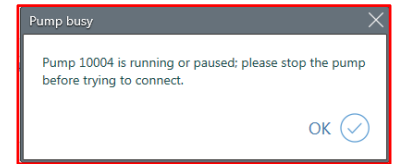
### Configure Pumps Tab



Stop pump before configuring pumps or updating firmware.

### Updating Firmware

- Before updating firmware, ensure that the pump is powered on but not running or in pause and the PC is running from AC power. The “Pump busy” box will display if an update is attempted while the pump is running or in pause.
- Click the Update Firmware button. The File Open dialog box will display. Select the firmware file provided there by SKC.
- The firmware update process will begin and may take up to 30 minutes. During this time, do not move the pumps from Bluetooth range or power off the PC.



Select Configure Pumps tab.

**Pump 170030**

MANUFACTURING DATE: 8/30/2017

LIFETIME VOL. SAMPLED: 2,323 L

HISTORY RECORDS: 4416

FIRMWARE VERSION: 0.7.14

Update Firmware

Update Date & Time

12 hour

Update Date & Time

SELECT PUMP DATE AND TIME DISPLAY PREFERENCES.

UNITS & DATA

FLOW & VOLUME: mL/min & Liters

INLET PRESSURE: Inches of water

ATMOSPHERIC PRESSURE: mbar

TEMPERATURE: °Fahrenheit

DATA SAMPLE RATE: 1 minute avg.

STP SETTINGS: 20 °C 101.352 kPa

Copy Settings to Other Pumps

SCREEN

DIM: On

AUTO LOCK: Off

SECURITY

SECURE LOCK: Off

PASSWORD: 1 2 1 2

Save Settings to Pump

Cancel

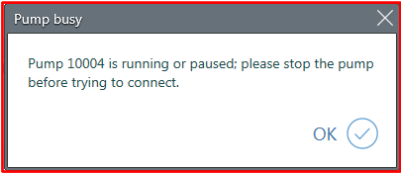
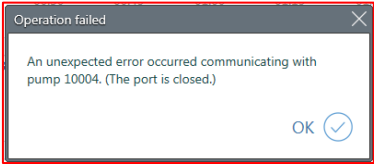
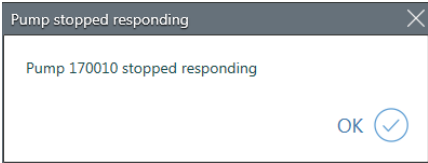
Appears after settings are changed. Select Save Settings to Pump or Cancel. Copy Settings to Other Pumps box will reappear as an option asking you to select desired pumps.

1-minute average fills memory in approximately 1 week;  
5-minute average fills memory in approximately 1 month.

Figure 8. Configure Pumps Tab



## Troubleshooting

Issue	Possible Solutions
<p>I am having difficulty connecting to pump(s).</p>	<ol style="list-style-type: none"> <li>1. Ensure that USB Bluetooth Adapter is inserted in USB port on PC and that pump is powered on and near Bluetooth Adapter.</li> <li>2. Relaunch DataTrac Pro and click Scan for Pumps button in Pump Display Bar.</li> <li>3. Close DataTrac Pro, remove and reinsert Bluetooth Adapter, and relaunch DataTrac Pro.</li> <li>4. Restart PC.</li> </ol>
<p>I keep getting a Pump busy box when I click in the Pump Display Bar or the History, Presets, and Configure Pumps tabs.</p>  <p>The screenshot shows a dialog box titled 'Pump busy' with a close button (X) in the top right corner. The text inside reads: 'Pump 10004 is running or paused; please stop the pump before trying to connect.' At the bottom right, there is an 'OK' button and a checkmark icon.</p>	<p>The pump is running or in pause. Stop the pump to access History, Presets, and Configure Pumps functions.</p>
<p>This Operation failed box appeared on my PC.</p>  <p>The screenshot shows a dialog box titled 'Operation failed' with a close button (X) in the top right corner. The text inside reads: 'An unexpected error occurred communicating with pump 10004. (The port is closed.)' At the bottom right, there is an 'OK' button and a checkmark icon.</p>	<ol style="list-style-type: none"> <li>1. Ensure that USB Bluetooth Adapter is inserted in USB port on PC and that pump is powered on and nearby.</li> <li>2. Check AC power connection.</li> <li>3. Relaunch DataTrac Pro and click Scan for Pumps button in Pump Display Bar.</li> <li>4. Close DataTrac Pro, remove and reinsert USB Bluetooth Adapter, and relaunch DataTrac Pro.</li> </ol>
<p>Pump stopped responding box appeared on my PC.</p>  <p>The screenshot shows a dialog box titled 'Pump stopped responding' with a close button (X) in the top right corner. The text inside reads: 'Pump 170010 stopped responding' At the bottom right, there is an 'OK' button and a checkmark icon.</p>	<p>Select pump again. If pump does not respond, relaunch DataTrac Pro. <b>Ensure that pump is powered on before relaunching.</b></p>

## Software Notes

Version	What's New
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V.1.2.6	- Issue version
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V.1.3.9	- Added support for AirChek Connect, includes ACConnect firmware 0.8.03; added PPTouch firmware 1.4.02; and fixed battery indication in control tab.
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V.1.3.10	- Fixed connection to Pocket Pump TOUCH pumps made in 2020 and later.
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## Appendices

### Appendix A

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## Appendix B

### Exported Sample Event Data Imported into Microsoft Excel

**Note:** AirChek Connect pump exported data includes actual flow.

Pocket Pump 170010 Sample201708281130 - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Timestamp	Elapsed Time	Run State	Set Flow (mL/min)	Accumulated Vol (L)	STP Vol (L)	Inlet Press (inH2O)	Temperature (F)	Atmospheric Press (inHg)	Battery Voltage (V)	Battery Percent	DAC Output Counts	Fault Count
2	8/28/2017 11:26	0:00:00	ManualStart	100	0	0	0.1	74.3	29.11	4.008	99	0	0
3	8/28/2017 11:27	0:00:51	FlowFault	100	0.085	0.081	1.4	74.5	29.13	4.024	97	705	1
4	8/28/2017 11:27	0:00:59	Normal	0	0.085	0.081	27.5	74.7	29.11	4.027	97	578	0
5	8/28/2017 11:28	0:01:59	Normal	100	0.198	0.19	0.5	74.5	29.12	4.042	97	494	0
6	8/28/2017 11:28	0:02:07	ManualPause	100	0.211	0.202	0.1	74.8	29.12	4.011	97	494	0
7	8/28/2017 11:28	0:02:10	ManualResume	100	0.211	0.202	0.2	74.8	29.14	4.011	97	0	0
8	8/28/2017 11:28	0:02:22	ManualStop	100	0.231	0.221	0	74.7	29.12	4.018	97	494	0
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
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21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													

AutoSave - Connect Pump 201007 Sample 20101200030.csv - Status: Success

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Timestamp	Elapsed Time	Run State	Set Flow (L/min)	cumulated Volume	STP Volume (L)	Inlet Pressure (inH2C)	Temperature (F)	Atmospheric Pressure (inHg)	Battery Voltage (V)	Battery Percent	DAC Output Counts	Fault Count	Actual Flow (L/min)
2	1/29/2021 8:50	0:00:00	ManualStart	2.2	0	0	0	32	0	0	0	0	0	0
3	1/29/2021 8:51	0:01:00	Normal	2.2	2.2	2.157	6.2	67.1	29.29	7.171	5	1269	0	2.18
4	1/29/2021 8:52	0:02:00	Normal	2.2	4.4	4.312	6.4	67.5	29.29	7.149	5	1281	0	2.2
5	1/29/2021 8:53	0:03:00	Normal	2.2	6.6	6.467	6.4	67.6	29.3	7.115	5	1292	0	2.2
6	1/29/2021 8:54	0:04:00	Normal	2.2	8.8	8.623	6.4	67.6	29.3	7.038	5	1293	0	2.2
7	1/29/2021 8:55	0:05:00	Normal	2.2	11	10.779	6.4	67.6	29.3	7.052	5	1306	0	2.2
8	1/29/2021 8:56	0:06:00	Normal	2.2	13.2	12.935	6.4	67.6	29.3	7.046	5	1307	0	2.2
9	1/29/2021 8:57	0:07:00	Normal	2.2	15.4	15.091	6.3	67.6	29.3	7.077	5	1310	0	2.2
10	1/29/2021 8:58	0:08:00	Normal	2.2	17.6	17.246	6.4	67.6	29.3	7.019	5	1291	0	2.2
11	1/29/2021 8:59	0:09:00	Normal	2.2	19.8	19.402	6.4	67.6	29.3	7.011	5	1312	0	2.2
12	1/29/2021 9:00	0:10:00	Normal	2.2	22	21.551	6.3	67.8	29.3	7.035	5	1313	0	2.2
13	1/29/2021 9:01	0:11:00	Normal	2.2	24.2	23.706	6.4	67.8	29.3	6.984	5	1317	0	2.2
14	1/29/2021 9:02	0:12:00	Normal	2.2	26.4	25.861	6.4	67.8	29.3	7.006	5	1319	0	2.19
15	1/29/2021 9:03	0:13:00	Normal	2.2	28.6	28.025	6.3	67.6	29.3	6.988	5	1319	0	2.2
16	1/29/2021 9:04	0:14:00	Normal	2.2	30.8	30.171	6.4	67.8	29.3	6.971	5	1317	0	2.2
17	1/29/2021 9:05	0:15:00	Normal	2.2	33	32.326	6.3	67.8	29.3	6.943	5	1319	0	2.2
18	1/29/2021 9:06	0:16:00	Normal	2.2	35.2	34.481	6.4	67.8	29.3	6.911	5	1324	0	2.2
19	1/29/2021 9:07	0:17:00	Normal	2.2	37.4	36.636	6.3	67.8	29.3	6.955	5	1326	0	2.2
20	1/29/2021 9:08	0:18:00	Normal	2.2	39.6	38.791	6.3	67.8	29.3	6.936	5	1329	0	2.2
21	1/29/2021 9:09	0:19:00	Normal	2.2	41.8	40.96	6.5	67.8	29.31	6.91	5	1329	0	2.2
22	1/29/2021 9:10	0:20:00	Normal	2.2	44	43.101	6.3	67.8	29.3	6.887	5	1323	0	2.2
23	1/29/2021 9:11	0:21:00	Normal	2.2	46.2	45.256	6.3	67.8	29.3	6.896	5	1326	0	2.2
24	1/29/2021 9:12	0:22:00	Normal	2.2	48.4	47.411	6.3	67.8	29.3	6.876	5	1319	0	2.2
25	1/29/2021 9:13	0:23:00	Normal	2.2	50.6	49.566	6.3	67.8	29.3	6.84	5	1326	0	2.2
26	1/29/2021 9:14	0:24:00	Normal	2.2	52.8	51.704	6.3	68	29.3	6.839	5	1323	0	2.2



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