

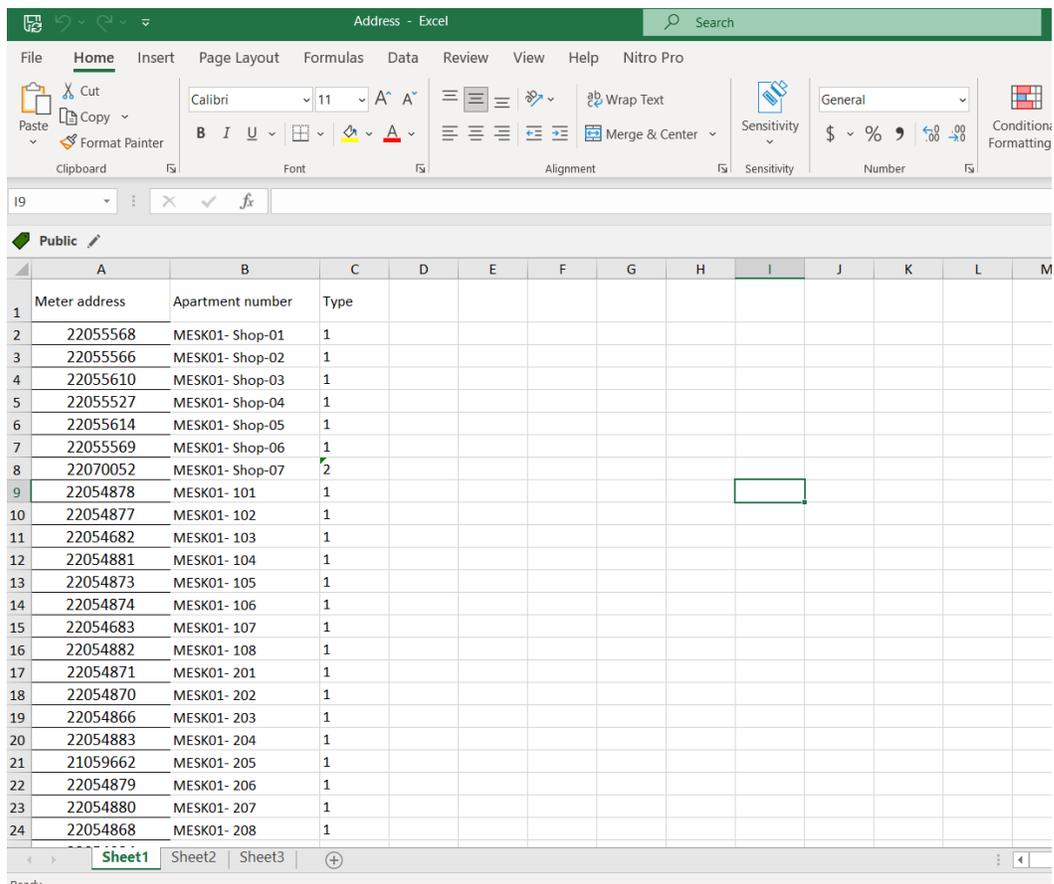
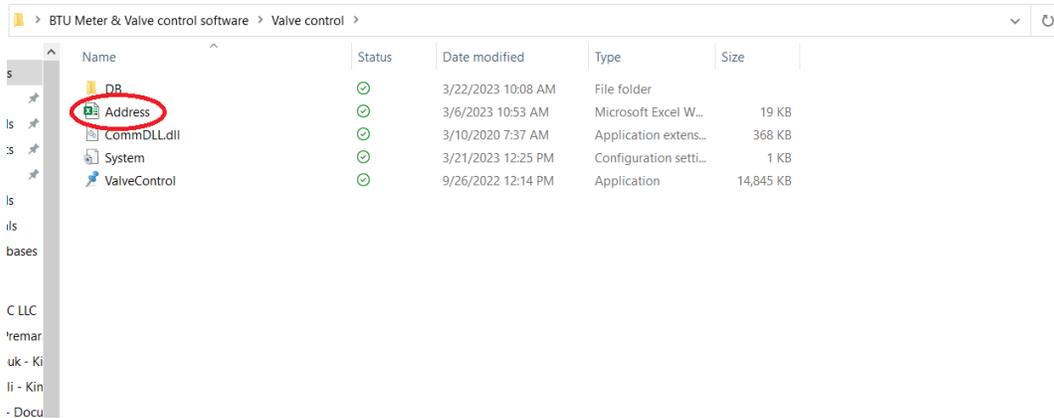
SVM-21 SMART VALVE

SMART M-BUS ISOLATION VALVE



1. Database

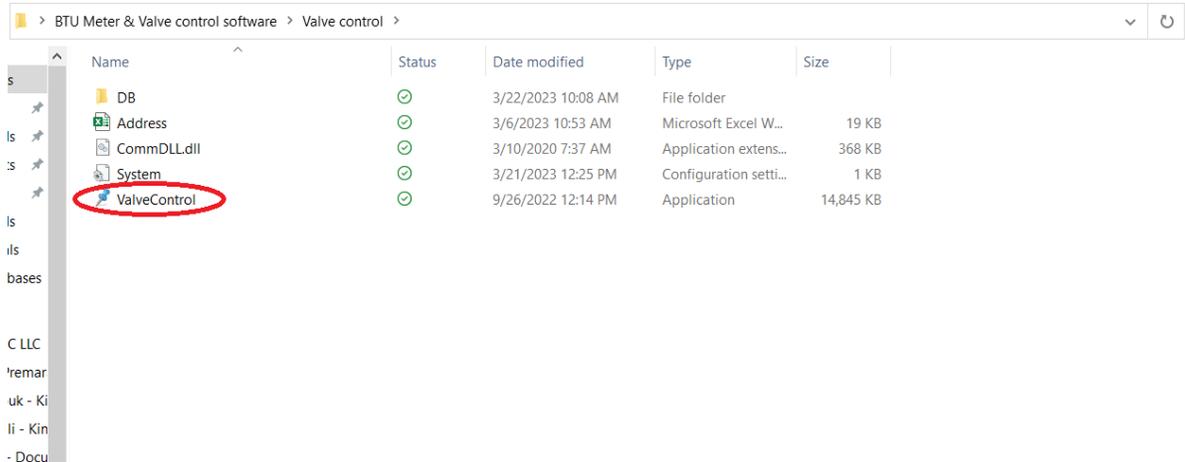
a. Database is linked through software with excel file as below



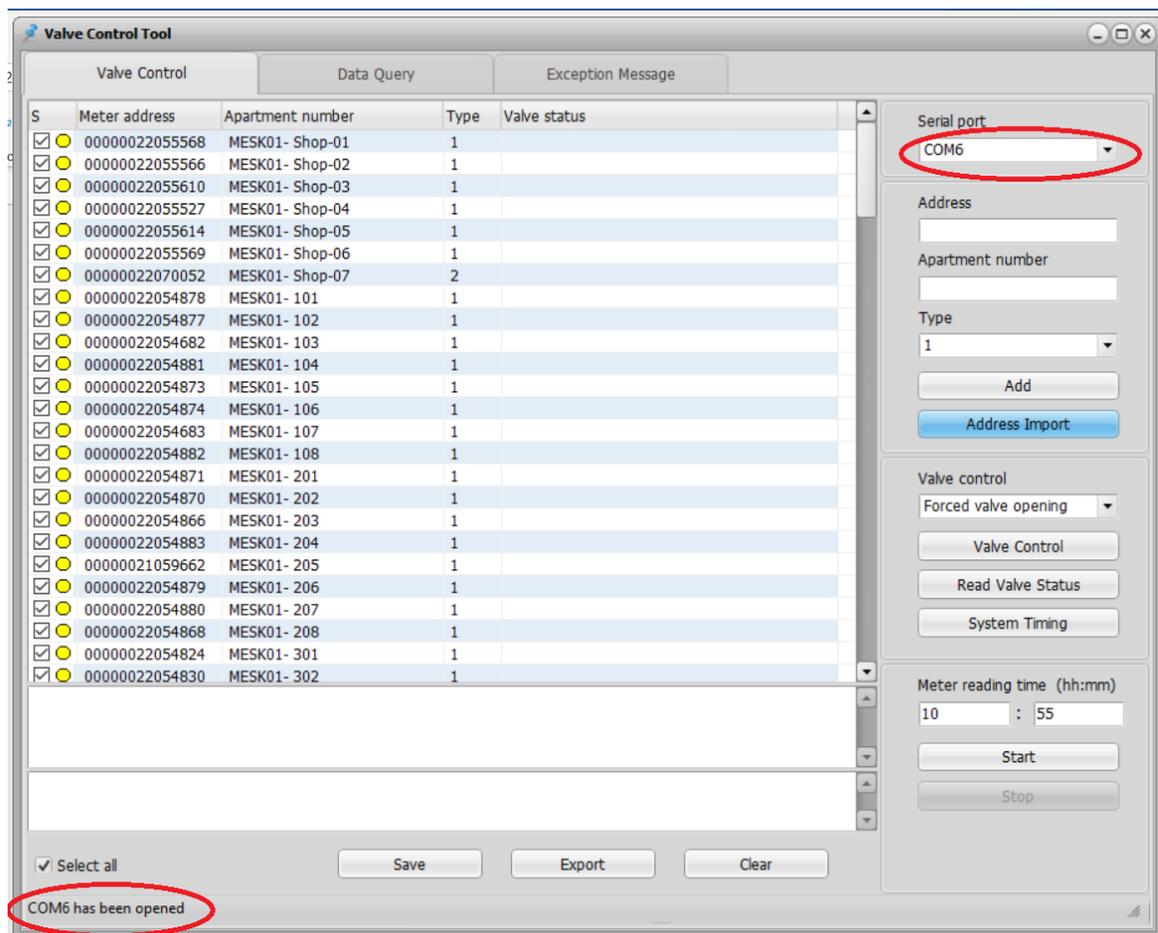
- To change any valve address change in this excel file and save
- Threaded valves are type 1
- Flanged valves are type 2

2. Open Valve Control Software

Once excel file is closed open valve control software

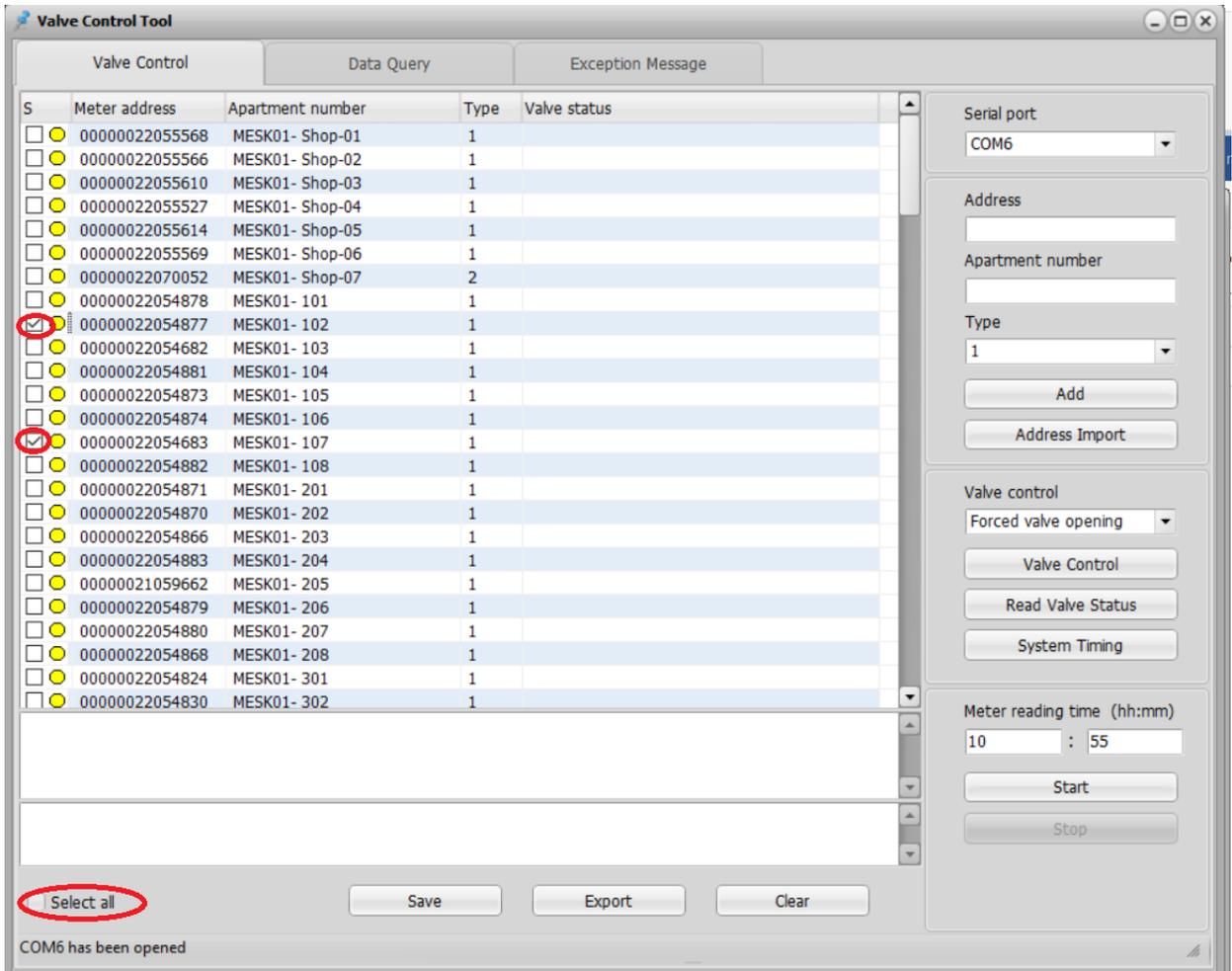


Select right com port and port should show open

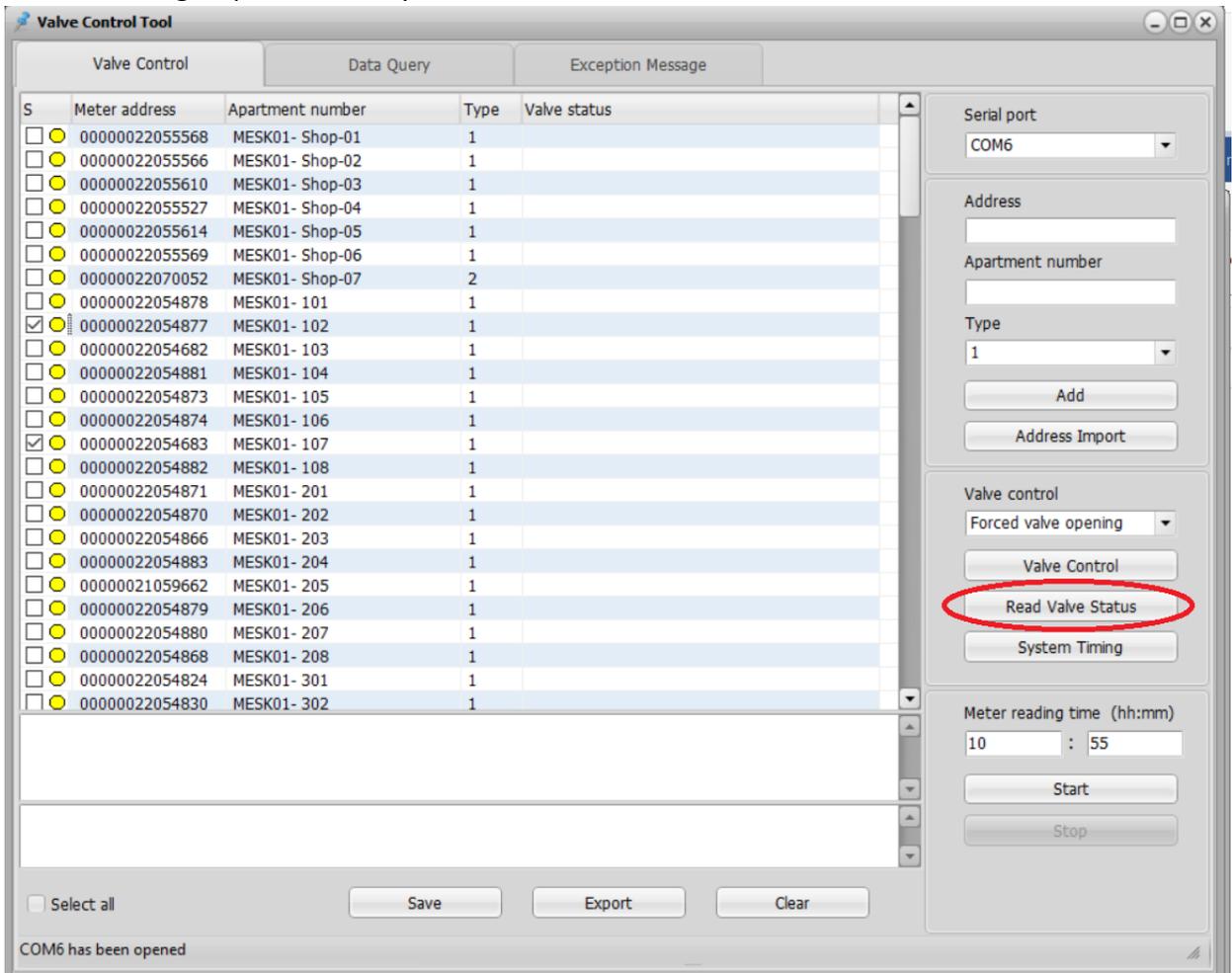


3. Reading valves

Once COM port is opened, select valve you want to read or control, by default all valves are selected you can un select all and select which are required



After selecting required valves you can read valves from below mentioned button



After Reading Status software will show status of each valve

The screenshot shows the 'Valve Control Tool' interface. It features a main table with columns for 'Meter address', 'Apartment number', 'Type', and 'Valve status'. The table lists 40 valves, with most showing a green checkmark and the status 'valve open, forced opening valve'. Three valves (addresses 206, 207, and 301) show a red 'X' in the checkmark column, indicating they are not communicating. To the right of the table is a control panel with fields for 'Serial port' (set to COM1), 'Address', 'Apartment number', and 'Type'. Below these are buttons for 'Add', 'Address Import', 'Valve control' (set to 'Forced valve opening'), 'Valve Control', 'Read Valve Status' (highlighted in blue), and 'System Timing'. At the bottom right, there is a 'Meter reading time (hh:mm)' field set to 10:55, with 'Start' and 'Stop' buttons. At the bottom left, there are 'Select all', 'Save', 'Export', and 'Clear' buttons. A status bar at the very bottom indicates 'COM1 has been opened'. A log window at the bottom shows three lines of hexadecimal data received from the device.

S	Meter address	Apartment number	Type	Valve status
<input checked="" type="checkbox"/>	0000022055381	M01	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055378	M02	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022054872	M03	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055590	101	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055579	102	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055578	103	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055576	104	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022054875	105	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055383	106	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022054869	107	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055461	201	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055465	202	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055464	203	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055582	204	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055463	205	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022054869	206	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055466	207	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055455	301	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055458	302	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055456	303	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055460	304	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022054910	305	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055457	306	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055462	307	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055183	401	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055488	402	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055490	403	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055459	404	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022051439	405	1	valve open, forced opening valve
<input checked="" type="checkbox"/>	0000022055485	406	1	valve open, forced opening valve

If red cross appears means that valve is not communicating

1. Controlling valves

Valves can be controlled using below mentioned command, first select command and then press Valve control

The screenshot displays the 'Valve Control Tool' interface. The main window contains a table with the following columns: S, Meter address, Apartment number, Type, and Valve status. The table lists various meters, including those in shops and apartments. A red circle highlights the 'Valve control' dropdown menu on the right side of the interface, which is currently open and showing three options: 'Forced valve opening', 'Forced valve opening', and 'Forced valve closing'. The 'Serial port' is set to COM6, and the 'Meter reading time' is 10:55. The interface also includes buttons for 'Save', 'Export', 'Clear', 'Add', 'Address Import', 'Read Valve Status', 'System Timing', 'Start', and 'Stop'.

S	Meter address	Apartment number	Type	Valve status
<input type="checkbox"/>	00000022055568	MESK01- Shop-01	1	
<input type="checkbox"/>	00000022055566	MESK01- Shop-02	1	
<input type="checkbox"/>	00000022055610	MESK01- Shop-03	1	
<input type="checkbox"/>	00000022055527	MESK01- Shop-04	1	
<input type="checkbox"/>	00000022055614	MESK01- Shop-05	1	
<input type="checkbox"/>	00000022055569	MESK01- Shop-06	1	
<input type="checkbox"/>	00000022070052	MESK01- Shop-07	2	
<input type="checkbox"/>	00000022054878	MESK01- 101	1	
<input checked="" type="checkbox"/>	00000022054877	MESK01- 102	1	
<input type="checkbox"/>	00000022054682	MESK01- 103	1	
<input type="checkbox"/>	00000022054881	MESK01- 104	1	
<input type="checkbox"/>	00000022054873	MESK01- 105	1	
<input type="checkbox"/>	00000022054874	MESK01- 106	1	
<input checked="" type="checkbox"/>	00000022054683	MESK01- 107	1	
<input type="checkbox"/>	00000022054882	MESK01- 108	1	
<input type="checkbox"/>	00000022054871	MESK01- 201	1	
<input type="checkbox"/>	00000022054870	MESK01- 202	1	
<input type="checkbox"/>	00000022054866	MESK01- 203	1	
<input type="checkbox"/>	00000022054883	MESK01- 204	1	
<input type="checkbox"/>	00000021059662	MESK01- 205	1	
<input type="checkbox"/>	00000022054879	MESK01- 206	1	
<input type="checkbox"/>	00000022054880	MESK01- 207	1	
<input type="checkbox"/>	00000022054868	MESK01- 208	1	
<input type="checkbox"/>	00000022054824	MESK01- 301	1	
<input type="checkbox"/>	00000022054830	MESK01- 302	1	

Valve Control Tool

Valve Control | Data Query | Exception Message

S	Meter address	Apartment number	Type	Valve status
<input type="checkbox"/>	00000022055568	MESK01- Shop-01	1	
<input type="checkbox"/>	00000022055566	MESK01- Shop-02	1	
<input type="checkbox"/>	00000022055610	MESK01- Shop-03	1	
<input type="checkbox"/>	00000022055527	MESK01- Shop-04	1	
<input type="checkbox"/>	00000022055614	MESK01- Shop-05	1	
<input type="checkbox"/>	00000022055569	MESK01- Shop-06	1	
<input type="checkbox"/>	00000022070052	MESK01- Shop-07	2	
<input type="checkbox"/>	00000022054878	MESK01- 101	1	
<input checked="" type="checkbox"/>	00000022054877	MESK01- 102	1	
<input type="checkbox"/>	00000022054682	MESK01- 103	1	
<input type="checkbox"/>	00000022054881	MESK01- 104	1	
<input type="checkbox"/>	00000022054873	MESK01- 105	1	
<input type="checkbox"/>	00000022054874	MESK01- 106	1	
<input checked="" type="checkbox"/>	00000022054683	MESK01- 107	1	
<input type="checkbox"/>	00000022054882	MESK01- 108	1	
<input type="checkbox"/>	00000022054871	MESK01- 201	1	
<input type="checkbox"/>	00000022054870	MESK01- 202	1	
<input type="checkbox"/>	00000022054866	MESK01- 203	1	
<input type="checkbox"/>	00000022054883	MESK01- 204	1	
<input type="checkbox"/>	00000021059662	MESK01- 205	1	
<input type="checkbox"/>	00000022054879	MESK01- 206	1	
<input type="checkbox"/>	00000022054880	MESK01- 207	1	
<input type="checkbox"/>	00000022054868	MESK01- 208	1	
<input type="checkbox"/>	00000022054824	MESK01- 301	1	
<input type="checkbox"/>	00000022054830	MESK01- 302	1	

Select all Save Export Clear

COM6 has been opened

Serial port: COM6

Address:

Apartment number:

Type: 1

Buttons: Add, Address Import

Valve control: Forced valve opening

Valve Control (highlighted)

Buttons: Read Valve Status, System Timing

Meter reading time (hh:mm): 10 : 55

Buttons: Start, Stop