

SVM-21 SMART VALVE SMART M-BUS ISOLATION VALVE

User Manual



1. Database

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

📜 > BT	TU Meter & Valve control software > Valve	control >				× ت
^	Name	Status	Date modified	Туре	Size	
S	DB	\odot	3/22/2023 10:08 AM	File folder		
	Address	\odot	3/6/2023 10:53 AM	Microsoft Excel W	19 KB	
S 🛪	CommDLL.dll	\odot	3/10/2020 7:37 AM	Application extens	368 KB	
.s *	System	\odot	3/21/2023 12:25 PM	Configuration setti	1 KB	
*	📌 ValveControl	\odot	9/26/2022 12:14 PM	Application	14,845 KB	
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	А	В	С	D	E	F	G	Н	1	J	К	L	M
1	Meter address	Apartment number	Туре										
2	22055568	MESK01- Shop-01	1										
3	22055566	MESK01- Shop-02	1										
4	22055610	MESK01- Shop-03	1										
5	22055527	MESK01- Shop-04	1										
6	22055614	MESK01- Shop-05	1										
7	22055569	MESK01- Shop-06	1										
8	22070052	MESK01- Shop-07	2										
9	22054878	MESK01- 101	1										
10	22054877	MESK01- 102	1										
11	22054682	MESK01- 103	1										
12	22054881	MESK01- 104	1										
13	22054873	MESK01- 105	1										
14	22054874	MESK01- 106	1										
15	22054683	MESK01- 107	1										
16	22054882	MESK01- 108	1										
17	22054871	MESK01- 201	1										
18	22054870	MESK01- 202	1										
19	22054866	MESK01- 203	1										
20	22054883	MESK01- 204	1										
21	21059662	MESK01- 205	1										
22	22054879	MESK01- 206	1										
23	22054880	MESK01- 207	1										
24	22054868	MESK01- 208	1										
-	Sheet1	Sheet2 Sheet3	+										•
Rea	dv												

- 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

1	> BTU Meter & Valve control software > Valve control >							
c .	^	Name	Status	Date modified	Туре	Size		
2		📙 DB	\oslash	3/22/2023 10:08 AM	File folder			
1-		Address	\odot	3/6/2023 10:53 AM	Microsoft Excel W	19 KB		
IS	<i>*</i>	CommDLL.dll	\odot	3/10/2020 7:37 AM	Application extens	368 KB		
:S	*	🔊 System	\odot	3/21/2023 12:25 PM	Configuration setti	1 KB		
	*	🖉 ValveControl	\odot	9/26/2022 12:14 PM	Application	14,845 KB		
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Select right com port and port should show open

Valve Control	Data Query		Exception Message	
Meter address	Apartment number	Туре	Valve status	Serial port
00000022055568	MESK01- Shop-01	1		COME
00000022055566	MESK01- Shop-02	1		COMO
00000022055610	MESK01- Shop-03	1		
00000022055527	MESK01- Shop-04	1		Address
00000022055614	MESK01- Shop-05	1		
0000022055569	MESK01- Shop-06	1		Apartment number
0000022070052	MESK01- Shop-07	2		
0000022054878	MESK01-101	1		
00000022054877	MESK01- 102	1		Туре
0000022054682	MESK01-103	1		1
00000022054881	MESK01-104	1		
0000022054873	MESK01-105	1		Add
00000022054874	MESK01-106	1		
0000022054683	MESK01- 107	1		Address Import
00000022054882	MESK01-108	1		
00000022054871	MESK01- 201	1		Valve control
00000022054870	MESK01- 202	1		Forced valve opening
00000022054866	MESK01- 203	1		
00000022054883	MESK01- 204	1		Valve Control
00000021059662	MESK01- 205	1		
00000022054879	MESK01-206	1		Read Valve Status
00000022054880	MESK01- 207	1		System Timing
00000022054868	MESK01-208	1		System mining
00000022054824	MESK01- 301	1		
00000022054830	MESK01- 302	1		Meter reading time (hh:mn
				10 . 55
				10 . 55
				* Start
				Stop
				-
Select all		Save	Export Clea	ir in the second se
ouroet di				



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

Valve Control	Data Que	ery	Exception Message		
Meter address	Apartment number	Туре	Valve status		Serial port
00000022055568	MESK01- Shop-01	1			COM6
00000022055566	MESK01- Shop-02	1			CONO
00000022055610	MESK01- Shop-03	1			
00000022055527	MESK01- Shop-04	1			Address
00000022055614	MESK01- Shop-05	1			
00000022055569	MESK01- Shop-06	1			Apartment number
00000022070052	MESK01- Shop-07	2			
00000022054878	MESK01- 101	1			
00000022054877	MESK01- 102	1			Туре
00000022054682	MESK01- 103	1			1
00000022054881	MESK01- 104	1			
00000022054873	MESK01- 105	1			Add
00000022054874	MESK01- 106	1			Address True est
00000022054683	MESK01- 107	1			Address Import
00000022054882	MESK01- 108	1			
00000022054871	MESK01- 201	1			Valve control
00000022054870	MESK01- 202	1			Forced valve opening
00000022054866	MESK01- 203	1			
00000022054883	MESK01- 204	1			Valve Control
00000021059662	MESK01- 205	1			
00000022054879	MESK01- 206	1			Read Valve Status
00000022054880	MESK01- 207	1			System Timing
00000022054868	MESK01- 208	1			System mining
00000022054824	MESK01- 301	1			
00000022054830	MESK01- 302	1			Meter reading time (hh:mm
				<u> </u>	10 . 55
					. 55
				_	Start
					Stop
lect all	9	ave	Export Clea	ar	



📌 Valve Control Tool					- • ×
Valve Control	Data Que	ŀΓγ	Exception Message		
S Meter address	Apartment number	Туре	Valve status	Serial port	
00000022055568	MESK01- Shop-01	1		COM6	•
0000022055566	MESK01- Shop-02	1		CONO	
0000022055610	MESK01- Shop-03	1			
0000022055527	MESK01- Shop-04	1		Address	
0000022055614	MESK01- Shop-05	1			
0000022055569	MESK01- Shop-06	1		Apartment numb	er
0000022070052	MESK01- Shop-07	2			
0000022054878	MESK01- 101	1			
0000022054877	MESK01- 102	1		Туре	
0000022054682	MESK01- 103	1		1	-
00000022054881	MESK01-104	1			
0000022054873	MESK01- 105	1		Add	
0000022054874	MESK01-106	1			
0000022054683	MESK01- 107	1		Address I	mport
0000022054882	MESK01-108	1			
0000022054871	MESK01- 201	1		Valve control	
0000022054870	MESK01- 202	1		Forced valve op	enina 👻
0000022054866	MESK01- 203	1			
0000022054883	MESK01- 204	1		Valve Co	ntrol
0000021059662	MESK01- 205	1			
0000022054879	MESK01- 206	1		Read Valve	Status
0000022054880	MESK01- 207	1		Curture 7	in the second
0000022054868	MESK01- 208	1		System 1	iming
0000022054824	MESK01- 301	1			
00000022054830	MESK01- 302	1		Meter reading tir	ne (hh:mm)
					55
				10 .	55
				E Charles	•
				Star	
				Stor	
				-	
Colort all		21/2	Evant Clar		
Select all			Clear		
COM6 has been opened					li

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



After Reading Status software will show status of each valve

van	re Control Tool	-					
	Valve Control	Data Quen	(Exception Message (6)			
	Meter address	Apartment number	Туре	Valve status	•	Serial port	
~	00000022055581	M01	1	valve open, forced opening valve		COM1	
~	00000022055578	M02	1	valve open, forced opening valve		CONT	
~	00000022054872	M03	1	valve open, forced opening valve	10		
~	00000022055580	101	1	valve open, forced opening valve		Address	
~	00000022055579	102	1	valve open, forced opening valve			
×	00000022055578	103	1			Apartment number	
~	00000022055576	104	1	valve open, forced opening valve			
~	00000022054875	105	1	valve open, forced opening valve			
1	00000022055583	106	1	valve open, forced opening valve		Туре	
~	00000022054869	107	1	valve open, forced opening valve		1	
~	00000022055461	201	1	valve open, forced opening valve			
~	00000022055465	202	1	valve open, forced opening valve		Add	
/	00000022055464	203	1	valve open, forced opening valve		Address Impact	
1	00000022055582	204	1	valve open, forced opening valve		Address Import	-
1	00000022055463	205	1	valve open, forced opening valve			
×.	00000022054869	206	1			Valve control	
×	00000022055466	207	1			Forced valve opening	<u>, </u>
×	00000022055455	301	1				
/	00000022055458	302	1	valve open, forced opening valve		Valve Control	
/	00000022055456	303	1	valve open, forced opening valve		-	
/	00000022055460	304	1	valve open, forced opening valve		Read Valve Stati	us
/	00000022054910	305	1	valve open, forced opening valve		System Timing	-
/	00000022055457	306	1	valve open, forced opening valve		System ming	-
1	00000022055462	307	1	valve open, forced opening valve			
×	00000022055183	401	1			Meter reading time (h	hher
1	00000022055488	402	1	valve open, forced opening valve		10 . 55	
~	00000022055490	403	1	valve open, forced opening valve		10 10 00	
1	00000022055459	404	1	valve open, forced opening valve		Start	
×	00000022051439	405	1				
~	00000022055485	406	1	valve open, forced opening valve		Stop	
23-23-	02-01 14:42:57 [Kec 02-01 14:42:58]Ser 02-01 14:42:58]Rec	teve: FC FE FE 68 46 99 48 0 di: FE FE FE 68 46 47 54 05 telve: FC FE FE 68 46 47 54 0	15 22 00 00 22 00 00 00 15 22 00 00	00 81 // 90 11 02 // 80 00 126 00 126 00 10 00 01 02 / 25 18 00 12 / 5 18 00 03 00 00 00 00 00 00 00 00 00 00 12 03 20 02 / 20 99 00 30 18 00 81 // 90 11 02 / 40 00 18 00 18 00 18 00 00 00 48 34 18 00 48 34 18 00 03 00 00 00 00 00 00 00 00 50 02 8 09 19 02 17 20 49 00 14 16 00 81 27 90 11 01 10 20 00 18 00 18 00 18 00 00 00 48 34 18 00 48 34 18 00 03 00 00 00 00 00 00 00 50 02 8 09 19 02 17 20 49 00 14 16			
el	ect al	Sa	ve	Export Clear	*		

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

📌 Valv	e Control Tool					- • ×
	Valve Control	D	ata Query	Exception Message		
S	Meter address	Apartment numbe	er Type	Valve status	·	Serial port
	00000022055568	MESK01- Shop-01	1 1			COM6 .
	00000022055566	MESK01- Shop-02	2 1			
	00000022055610	MESK01- Shop-03	3 1			
	00000022055527	MESK01- Shop-04	4 1			Address
	00000022055614	MESK01- Shop-05	5 1			
	00000022055569	MESK01- Shop-06	5 1			Apartment number
	00000022070052	MESK01- Shop-07	7 2			
	00000022054878	MESK01- 101	1			
	00000022054877	MESK01-102	1			Туре
	00000022054682	MESK01- 103	1			1 -
	00000022054881	MESK01-104	1			
	00000022054873	MESK01- 105	1			Add
님은	00000022054874	MESK01-106	1			Address Import
No	00000022054683	MESK01- 107	1			Address Import
님은	00000022054882	MESK01-108	1			
님은	00000022054871	MESK01- 201	1			Valve control
님은	00000022054870	MESK01- 202	1			Forced valve opening -
님음	00000022054866	MESK01- 203	1			Forced valve opening
	00000022054883	MESK01- 204	1			Forced valve closing
	00000021059662	MESK01- 205	1			d Value Cit
HY	000000220548/9	MESK01-206	1			Read Taile Status
	00000022054880	MESK01- 207	1			System Timing
	00000022054868	MESK01- 208	1			
HX	00000022054824	MESK01- 301	1		-	
	00000022054830	MESK01- 302	1			Meter reading time (hh:mm)
						10 : 55
					-	Start
						Stop
					v	
🗌 Se	lect all	(Save	Export	Clear	
COM6	has been opened					li



📌 Valve Control Tool					- • ×
Valve Control	Data Qu	iery	Exception Message		
S Meter address	Apartment number	Туре	Valve status		Serial port
00000022055568	MESK01- Shop-01	1			COM6 -
00000022055566	MESK01- Shop-02	1			COMO r
00000022055610	MESK01- Shop-03	1			
00000022055527	MESK01- Shop-04	1			Address
00000022055614	MESK01- Shop-05	1			
0000022055569	MESK01- Shop-06	1			Apartment number
00000022070052	MESK01- Shop-07	2			
00000022054878	MESK01- 101	1			
00000022054877	MESK01- 102	1			Туре
00000022054682	MESK01- 103	1			1 -
00000022054881	MESK01- 104	1			
00000022054873	MESK01- 105	1			Add
00000022054874	MESK01- 106	1			Address Treast
00000022054683	MESK01- 107	1			Address Import
00000022054882	MESK01- 108	1			
00000022054871	MESK01- 201	1			Valve control
00000022054870	MESK01- 202	1			Forced valve opening -
00000022054866	MESK01- 203	1			
00000022054883	MESK01- 204	1			Valve Control
00000021059662	MESK01- 205	1			
00000022054879	MESK01- 206	1			Read Valve Status
00000022054880	MESK01- 207	1			System Timing
00000022054868	MESK01- 208	1			System Timing
00000022054824	MESK01- 301	1			
00000022054830	MESK01- 302	1			Meter reading time (hh:mm)
				<u> </u>	10 . 55
					10 . 55
				-	Start
					Start
					Stop
				-	
1					
Select all		Save	Export Cl	ear	
COM6 has been opened					li