



## VALVE CONTROL MANAGEMENT SOFTWARE

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## USER MANUAL

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## 1. INTRODUCTION

### What is VCM?

VCM is a Global MBUS Valves control software used to control, schedule and manage valve ON/OFF operations of multiple buildings.

UBILL VALVE CONTROL MANAGEMENT (VCM) – Features:

- ❖ Attractive Dashboard
  - ❖ Live Monitor & Control with Chart
  - ❖ Bulk Valve ON & OFF
  - ❖ Bulk Valve Import & Export Option
  - ❖ Report Generation in Single Click
  - ❖ Multiuser Login
  - ❖ FAQ's and Live Guide for User Friendly
  - ❖ Auto Email Option and Scheduler for different level Users
  - ❖ WhatsApp/ SMS Alert Optional
  - ❖ Auto upgradation of New Features from the Server
- Automatically if connected to the internet.

## 2. INSTALLATION

UBILL-VCM\_Setup.Exe automatically installs on the hard drive of the computer. Under the operating system Windows 7 or higher the program needs writing authorizations in the installation directory.

### 2.1 PURCHASE LICENSE

To activate the software, you have to purchase the license. To purchase and activate the license follow the steps below:

Step 1: Open UBILL-VCM

Step 2: Copy the Activation code from the License page.

Step 3: Mail the code to us

Step 4: Paste the product key that you got in your mail

Step 5: Click Activate button

### 3. LOGIN

By using this option, you can configure the communication settings with the M-Bus master

Username: admin

Password: admin

### 4. COM SETTINGS

By using this option, you can configure the communication settings

Port ID	Common Name	Serial / TCP	Port No	Baudrate	Parity
1	Building1	COM3	10001	2400	Even
2	Building2	192.168.1.166	10001	2400	Even
3	Building3	1.1.1.1	10001	2400	Even

Add    Edit    Delete    Close

#### 4.1 SERIAL PORT

Serial Port settings define the serial port of the PC connected to a M-Bus master with a 1:1 straight forward RS232 cable.

- **COM Port:** The connected COM port will be displayed in the drop-down list, select the com-port connected to the M-Bus level converter. When using an USB-RS232 adapter or a virtual COM-port verify the COM-port number in the Windows device manager.
- **Baud Rate:** determines the baud rate of the M-Bus port during meter search. Most meters support 2400 baud but there are some older meters communicating only at 300 baud. Some meters support serial communication with 9600 baud. But the operating distance on the M-Bus network can be much reduced at higher baud rates.
- **Parity:** The default parity of M-Bus is even.
- **Read Time Out:** The reply time out delay can be selected from the drop-down list.

## 4.2 TCP/IP

TCP/IP settings can be used to configure the IP and port of a TCP/IP M-Bus master.

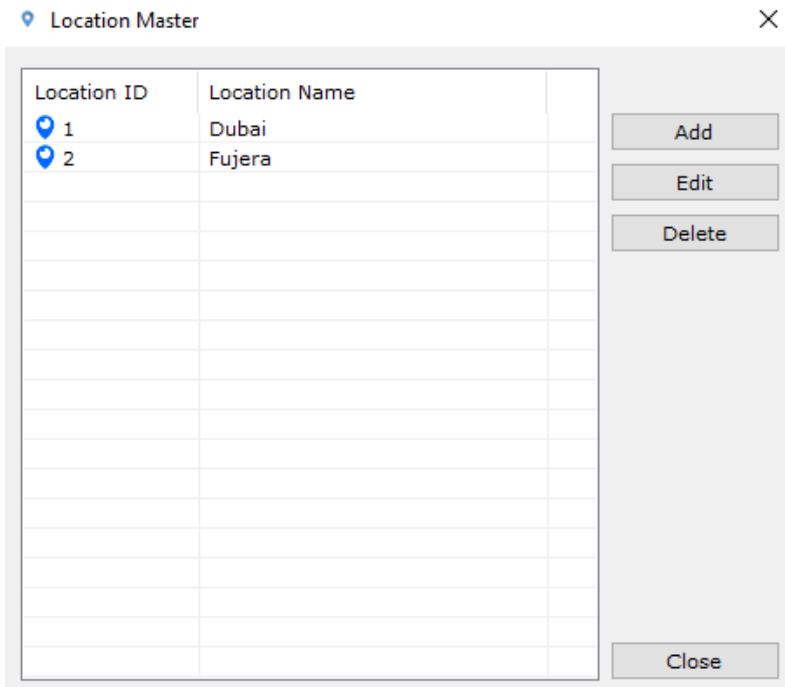
- **IP Address:** enter the ip address of the M-Bus master.
- **Port No:** enter the port number of the M-Bus master.

## 5. Location Master

Location and Building Name can be configured using Location Master menu.

Kindly follow the steps below:

- Step 1: Click Menu Building Master
- Step 2: Click Add
- Step 3: Enter the Building Name
- Step 4: Click Save



## 6. Tenant Details Import

Tenant details can be configured using Manage Customer Menu.

Kindly follow below steps to import Tenant details:

Step1: Click Manage Customer Menu > Download the template

Step2: Open the template and fill the required field

Step 3: Click on upload button and choose the template.

Step4: Click on save button

Client ID	First Name	Middle Name	Last Name	EmailID	Address1	Address2	Address3	Phone No	Mobile No	Account No	Ref No.
1	Moses	Geo	A	abc@gmail.com	1	2	3	123456789	1234567898	1234567890	C1
2	F	T	B	b@gmail.com	2	3	4	123456780	1234567899	1234567891	C2
3	E	S	A	a@gmail.com	3	4	5	123456771	1234567900	1234567892	C3

## 7. Unit Details Import

Unit details can be import using the Manage Unit Menu.

Kindly follow below steps :

- Step1: Click Manage Unit > Download the template
- Step2: Open the template and fill the required field
- Step 3: Click on upload button and choose the template
- Step4: Click on save button

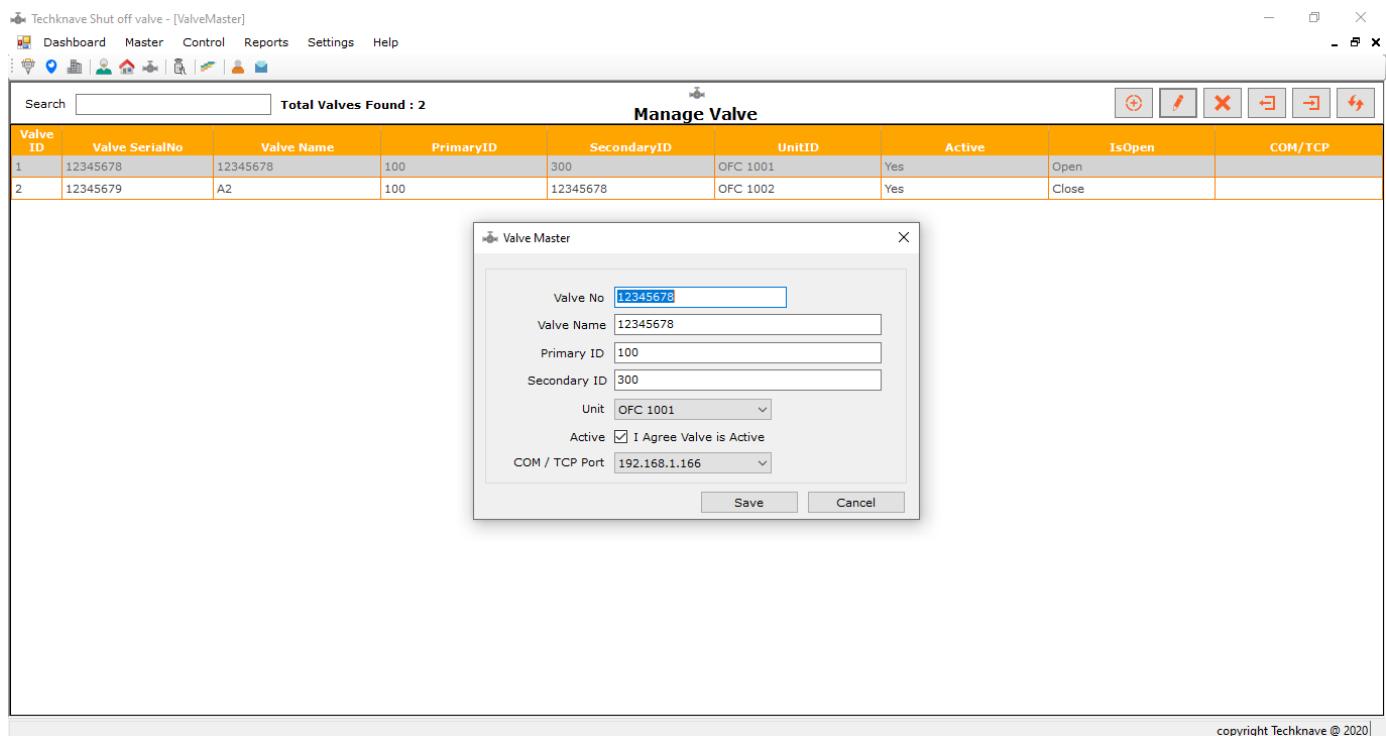
Manage Unit's					
UnitID	UnitNo	LocationName	BuildingName	FirstName	Active
19	OFC 1001	Dubai	D1	Moses	Yes
21	OFC 1003	Dubai	D1	Moses	Yes
20	OFC 1004	Dubai	D2	F	Yes
22	OFC 1002	Dubai	D1	E	No

## 8. Valve Detail Import

Valve details can be import using the Manage Valve Menu.

Kindly follow below steps :

- Step1: Click Manage Valve > Download the template
- Step2: Open the template and fill the required field
- Step 3: Click on upload button and choose the template
- Step4: Click on save button



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## 9. Email Settings

Email Server details can be configured here.

Kindly follow below steps :

Step1: Click Settings> Email Settings

Step2: Enter the Email server details.

Step3: Click Save

Display Name	<input type="text" value="TECHKNAVE"/>
User Name	<input type="text" value="www@gmail.com"/>
Password	<input type="password" value="*****"/>
Server Name	<input type="text" value="smtp.gmail.com"/>
Port No	<input type="text" value="587"/>
Delivery Method	<input type="text" value="Network"/>
Security	<input type="text" value="TLS"/>

Enable SSL



## 10. Email Schedule

Valve status Email Schedule can be configured here.

Kindly follow below steps :

Step1: Click Settings> Email Scheduler

Step2: Enter the Email details

Step3: Select Date and Schedule type, Enter Mail Id

Step4: Click Save

The screenshot shows the 'Email Scheduler' configuration screen. On the left, there's a form for setting up an email schedule. It includes fields for 'Schedule Type' (set to 'Daily'), 'Schedule Day' (set to 'EveryDay'), 'Schedule Time' (set to '12:20'), and a recipient 'Mail ID' ('sales@techknav.com'). Below these are sections for 'Data Attach' (with radio buttons for 'Valve Status', 'Communication Status', and 'Both') and a 'Message' area containing a template email body. The message body starts with 'Dear Customer,' followed by '[DATALIST]' and ends with 'Techknav Smart MBus Valve'. At the bottom of the left panel are buttons for 'Data List', 'Insert Tag', 'Save', and 'Cancel'. On the right, there's a table titled 'Scheduled' showing two entries:

ScheduleID	ScheduleType	ScheduleDay	ScheduleTime	DataList	RecipientMail
1	Daily	EveryDay	16:30	Valve	moses.geo10@g...
2	Weekly	Wednesday	10:30	Valve	moses.geo10@g...

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## 11. Monitor & Control

Valves can be operated and monitored from this Menu.

Kindly follow below steps :

Step1: Click Control

Step2: Select the Building, Unit and Valve

Step3: Click Open / Close Button to Operate the valve

Step4: Click Read to Check the valve status and Battery %

Step5: Click On History Button, to check the Valve control Timings

Master Control Reports Settings Help

Total Valve Found : 45 0 0 0

**Monitor & Control**

Valve Name	Secondary ID	Building	Location	Valve Status	Battery %	Last Control	COM/TCP	Comm Status	Last Comm	Action	View	Action	Action	Next Poll
2303	30000107	Retail	Reem Island	Open	100%	13-01-2022 17:42	192.168.1.1	Yes	13-01-2022 17:42	Read	History	Open	Close	Ready
1605	30000110	Retail	Reem Island	Open	100%	17-02-2022 15:40	192.168.1.1	Yes	17-02-2022 15:40	Read	History	Open	Close	Ready
1210	30000139	Retail	Reem Island	Open	100%	13-01-2022 17:49	192.168.1.1	Yes	13-01-2022 17:47	Read	History	Open	Close	Ready
3502-A	30000163	Offices	Reem Island	Open	100%	15-02-2022 12:25	192.168.1.1	Yes	15-02-2022 12:25	Read	History	Open	Close	Ready
v101	40011010	B1	L1	Open	100%	18-03-2023 12:37	COM3	Yes	18-03-2023 12:37	Read	History	Open	Close	Ready
1602	30000131	Retail	Reem Island	Open	100%	13-01-2022 17:47	192.168.1.1	Yes	13-01-2022 17:47	Read	History	Open	Close	Ready
1503	30000100	Retail	Reem Island	Open	100%	13-01-2022 17:46	192.168.1.1	Yes	13-01-2022 17:44	Read	History	Open	Close	Ready
1504	30000090	Retail	Reem Island	Open	100%	14-01-2022 15:48	192.168.1.1	Yes	14-01-2022 15:45	Read	History	Open	Close	Ready
2205	30000085	Retail	Reem Island	Open	100%	13-01-2022 17:41	192.168.1.1	Yes	13-01-2022 17:23	Read	History	Open	Close	Ready
1709	30000133	Retail	Reem Island	Open	100%	13-01-2022 17:44	192.168.1.1	Yes	13-01-2022 17:44	Read	History	Open	Close	Ready
802	30000125	Retail	Reem Island	Open	100%	13-01-2022 17:22	192.168.1.1	Yes	13-01-2022 17:22	Read	History	Open	Close	Ready
702	30000142	Retail	Reem Island	Open	100%	13-01-2022 17:41	192.168.1.1	Yes	13-01-2022 17:41	Read	History	Open	Close	Ready
801	30000088	Retail	Reem Island	Open	100%	13-01-2022 17:45	192.168.1.1	Yes	13-01-2022 17:45	Read	History	Open	Close	Ready
607	30000080	Retail	Reem Island	Open	100%	13-01-2022 17:42	192.168.1.1	Yes	13-01-2022 17:42	Read	History	Open	Close	Ready
606	30000074	Retail	Reem Island	Open	100%	13-01-2022 17:41	192.168.1.1	Yes	13-01-2022 17:40	Read	History	Open	Close	Ready
2602	30000144	Retail	Reem Island	Open	100%	13-01-2022 17:43	192.168.1.1	Yes	13-01-2022 17:43	Read	History	Open	Close	Ready
1305	30000091	Retail	Reem Island	Open	100%	13-01-2022 17:43	192.168.1.1	Yes	13-01-2022 17:43	Read	History	Open	Close	Ready
1306	30000106	Retail	Reem Island	Open	100%	13-01-2022 17:43	192.168.1.1	Yes	13-01-2022 17:43	Read	History	Open	Close	Ready
1202	30000128	Retail	Reem Island	Open	100%	13-01-2022 17:46	192.168.1.1	Yes	13-01-2022 17:46	Read	History	Open	Close	Ready
2106	30000114	Retail	Reem Island	Open	100%	13-01-2022 17:41	192.168.1.1	Yes	13-01-2022 17:40	Read	History	Open	Close	Ready
602	30000092	Retail	Reem Island	Open	100%	13-01-2022 17:40	192.168.1.1	Yes	13-01-2022 17:40	Read	History	Open	Close	Ready
1407	30000067	Retail	Reem Island	Open	100%	13-01-2022 17:47	192.168.1.1	Yes	13-01-2022 17:47	Read	History	Open	Close	Ready
RG-29	30000096	Offices	Reem Island	Open	100%	13-01-2022 17:12	192	Yes	13-01-2022 17:12	Read	History	Open	Close	Ready
RG-12	30000126	Offices	Reem Island	Open	100%	13-01-2022 16:51	192	Yes	13-01-2022 16:51	Read	History	Open	Close	Ready
3301	30000109	Retail	Reem Island	Open	100%	13-01-2022 17:49	192.168.1.1	Yes	13-01-2022 17:48	Read	History	Open	Close	Ready
3603	30000153	Retail	Reem Island	Open	100%	13-01-2022 17:48	192.168.1.1	Yes	13-01-2022 17:48	Read	History	Open	Close	Ready
3601	30000105	Retail	Reem Island	Open	100%	17-02-2022 15:47	192.168.1.1	Yes	15-02-2022 12:06	Read	History	Open	Close	Ready
RG-14	30000089	Offices	Reem Island	Open	100%	27-01-2022 10:21	192	Yes	27-01-2022 10:21	Read	History	Open	Close	Ready
RG-10	30000082	Offices	Reem Island	Open	100%	13-01-2022 17:06	192	Yes	13-01-2022 17:06	Read	History	Open	Close	Ready
807	30000137	Retail	Reem Island	Open	100%	13-01-2022 17:46	192.168.1.1	Yes	13-01-2022 17:46	Read	History	Open	Close	Ready
RG-11	30000078	Offices	Reem Island	Open	100%	13-01-2022 17:05	192	Yes	13-01-2022 17:05	Read	History	Open	Close	Ready
RG-15	30000149	Offices	Reem Island	Open	100%	14-01-2022 14:55	192	Yes	13-01-2022 16:57	Read	History	Open	Close	Ready
R1-13	30000103	Offices	Reem Island	Open	100%	13-01-2022 17:07	192	Yes	13-01-2022 17:05	Read	History	Open	Close	Ready
RG-07	30000117	Offices	Reem Island	Open	100%	13-01-2022 16:51	192	Yes	13-01-2022 16:51	Read	History	Open	Close	Ready
1403	30000072	Offices	Reem Island	Open	100%	14-01-2022 14:57	192	Yes	14-01-2022 14:57	Read	History	Open	Close	Ready
RG-30	30000087	Offices	Reem Island	Open	100%	03-02-2022 14:04	192	Yes	03-02-2022 14:04	Read	History	Open	Close	Ready
RG-08	30000164	Offices	Reem Island	Open	100%	03-02-2022 11:15	192	Yes	03-02-2022 11:15	Read	History	Open	Close	Ready
RG-25	30000070	Offices	Reem Island	Open	100%	13-01-2022 17:10	192	Yes	13-01-2022 17:10	Read	History	Open	Close	Ready

**Open/Close Valve**

**Valve is Open**

**Open Valve** **Close Valve**

<b>Detail</b>	
Location <input type="text" value="L1"/>	COM / TCP <input type="text" value="COM3"/>
Building <input type="text" value="B1"/>	Last Log <input type="text" value="18-03-2023 12:37"/>
Valve Name <input type="text" value="v101"/>	Comm Status <input type="text" value="Yes"/>
Secondary ID <input type="text" value="40011010"/>	

Show All Polling

## Valve Controlled History

Valve Status	Valve Status Time	Control Mode	Comm Time	Control Count	Comm Status
Close	18/03/2023 12:37:...	Manual	18/03/2023 12:37:...	3345	Yes
Open	18/03/2023 12:33:...	Manual	18/03/2023 12:33:...	3341	Yes
Close	18/03/2023 12:31:...	Software	18/03/2023 12:31:...	3335	Yes
Open	18/03/2023 12:23:...	Manual	18/03/2023 12:23:...	3300	Yes

**12. Report**

Valve control date wise report can be generated from this Menu.

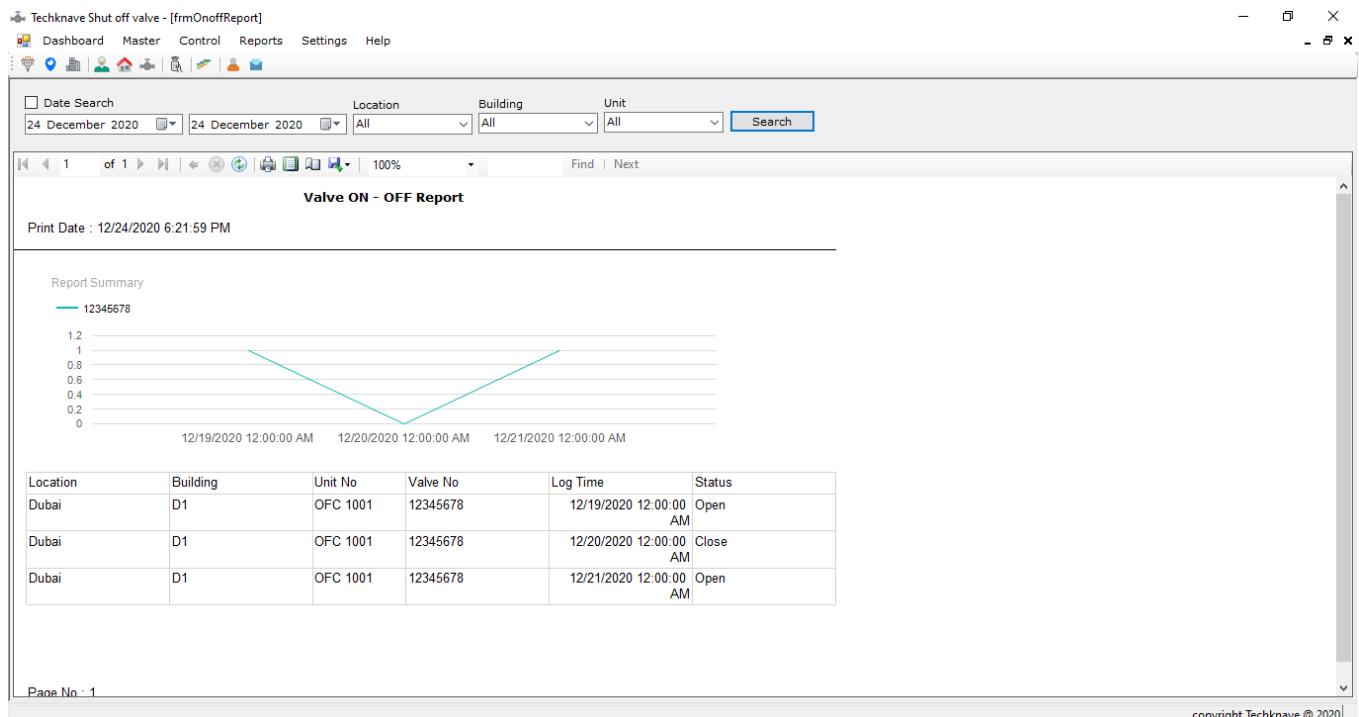
Kindly follow below steps :

Step1: Click Report

Step2: Select the Date Range

Step3: Select the Location, Building, Valve

Step4: Click Search to generate the report



## 13. Communication Diagram

The Mbus valves are looped and connected to the VCM system as per the below diagram.

