Technical support / Firmware updates

Support
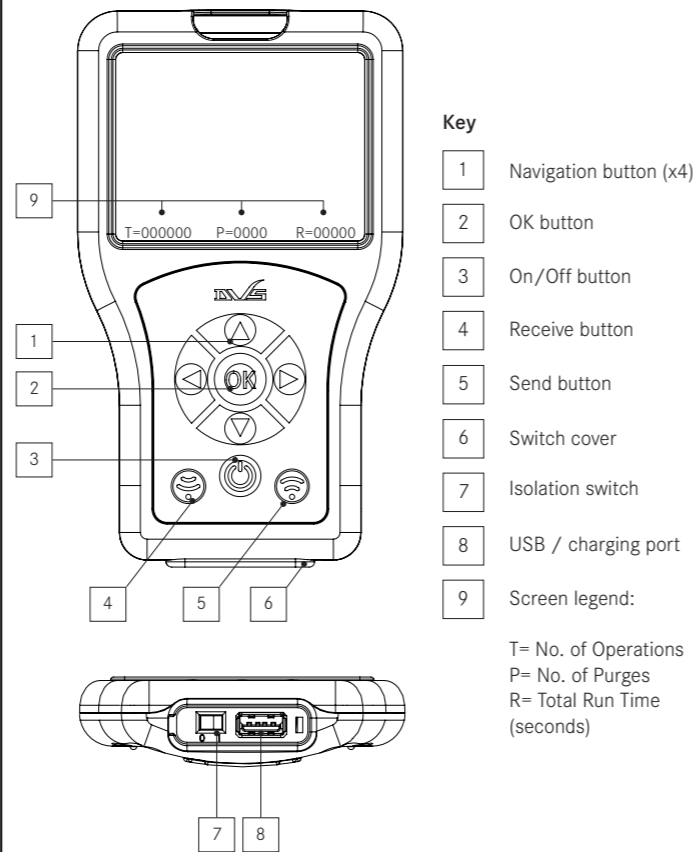
For technical support please visit our technical pages on our website at www.dartvalley.co.uk
Or contact us by e-mail at techsupport@dartvalley.co.uk
Alternatively, you can telephone us direct on 01803 529021 and our customer service team will be pleased to help you.

Firmware Updates - Contact Dart Valley for latest version.

To update the firmware on your DVS Handheld Programmer, follow the steps below;

1. Plug the programmer into your PC via USB and press OK to "enter mass storage mode"

2. Open programmer files on your PC and drag new software file into the first files folder.

3. **EJECT,** then unplug the programmer.

4. Turn the programmer on.

5. Scroll to system menu, and scroll down to "Firmware Update" then press OK.

6. Select new firmware version and press OK, then wait for screen to load.

7. Follow the on screen instructions to complete.

Programmer layout

Key

1	Navigation button (x4)
2	OK button
3	On/Off button
4	Receive button
5	Send button
6	Switch cover
7	Isolation switch
8	USB / charging port
9	Screen legend:

T=000000 P=0000 R=00000

T= No. of Operations
P= No. of Purges
R= Total Run Time
(seconds)

Warranty and End of Life Disposal

Warranty
The DVS Handheld Programmer is guaranteed for 5 years from purchase against defective material and assembly.

Disposal of electrical and electronic equipment

The use of this crossed out wheeled bin logo indicates that this product needs to be disposed of separately to any other household waste.

Within each of the European Union member countries, provisions have been made for the collection and recycling of unwanted electrical and electronic equipment. Outside of the EU it will be necessary to dispose of this product at your local community waste collection or recycling centre. In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local council for collection centre details.

Disposal of waste batteries

The use of this crossed out wheeled bin logo indicates that the battery needs to be disposed of separately to any other household waste.

Within each of the European Union member countries, provisions have been made for the collection and recycling of waste batteries. Outside of the EU it will be necessary to dispose of this product at your local community waste collection or recycling centre.

In order to help preserve our environment we ask that you dispose of this battery correctly. Please contact your local council for collection centre details.

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Dart Valley Systems
a **FRANKE** company

PP00-468 220322

DVS Handheld Programmer
Operating Instructions

Dart Valley Systems
a **FRANKE** company

AC01-001
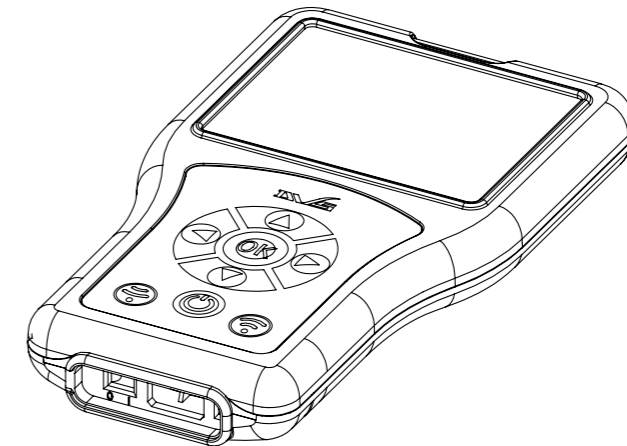
Step 1 : Basic operation

To turn on the programmer, lift the switch cover on the base, this will expose the switch and USB connection, move the switch in to the ON position. Be sure to refit the switch cover afterwards.
Once powered ON, the Date and time must be set to ensure readings are chronologically correct when downloading usage information.

Please Note; It is recommended that the Power Switch is turned OFF when NOT in use to avoid premature battery drain.

Use the left & right navigation arrows to scroll through menus. Use the down & up arrows to highlight setting, then left & right arrows to adjust. (See page 4 for Programmer layout)

Once you have selected the menu you wish to change, use the up and down buttons to enter the part of the program you wish to change, when you have done this, use the left and right buttons to change the settings.

To adjust sensor settings, point the IR port at 90° to the DVS sensor at a distance of no more than 30cm, and press the recieve button (see Programmer layout). When the sensor is read a confirmation tick will appear on the screen. The correct menu for the sensor will then be displayed and settings can be adjusted accordingly.

To send new settings to the sensor, point the IR port at the sensor as above, then press and hold the send button until the green tick appears. Sensor is now set with the new settings.

Note; When Reading/Sending to Aquarius taps you may need to adjust the angle of the IR Port slightly.

IMPORTANT: You must point the programmer away from the sensor and leave for a minimum of 30 seconds before attempting to use, this allows the sensor to recalibrate. Attempting to use before this time may cause the sensor to lock up or false trigger.

Step 2 : Data processing

To upload data from the programmer, ensure it is switched ON, then connect the programmer to your computer via USB.

When prompted press 'OK' on programmer keypad to enter mass storage mode.

Find USB drive in 'My Computer' area.

Navigate through the data folders to find Excel CSV files for relevant product readings.

Step 3 : Charging

The Programmer requires a universal USB charging device. If being charged by computer connect the USB cable to the Programmer and then to the computer. The Programmer will then display a menu giving the option to 'download' or 'charge', follow prompts to 'press any button' to begin charging and display 'charging' on screen. Allow to charge for a minimum of 8 hours.

IMPORTANT: Charging for longer than 8 hours will not affect battery life or cause damage to the Programmer.

PP00-468 220322

	DEFAULT SETTINGS	OPTIONAL SETTINGS
SETUP CLOCK		
Day of the week		Mon, Tues, Wed, Thurs, Fri, Sat, Sun
Month	(Date and time must be set correctly to provide	1 - 12
Year	accurate download information)	Current year onwards
Hour		0 - 23
Minutes		0 - 59
Seconds		0 - 59
V2 TAP MENU		
Run On Time	2 Seconds	2, 5, 10, 20, 30, 40 & 60 Seconds
Range	5	1-10
Anti-vandal time	30 seconds	30, 60, 75, 90 Seconds & 2 Minutes
Automatic Purge	OFF	OFF, 3, 6, 12, 24, 36 & 48 Hours
Purge run time	1 Minute	30 Seconds, 1, 2, 4 & 8 Minutes
TAP MENU		
Run Time	2 Seconds	2, 5, 10, 20 & 30 Seconds
Range	5	1 - 10
Wave On/Off	OFF	ON/OFF
Anti Vandal Time	1 Minute	30 Seconds, 1, 2, 4 & 8 Minutes
Automatic Purge	OFF	OFF, 3, 6, 12, 24, 36 & 48 Hours
Purge Run Time	1 Minute	30 Seconds, 1, 2, 4 & 5 Minutes
Lock Outs	OFF	OFF, 4, 6, 8 & 10 Ops
DUAL WASHROOM MENU		
Channel Number	01	01-12
Channel Function	Basin	Basin, Bath, Shower, Direct Flush
Run On Time	*2 Seconds*	*According to relevant channel selection*
Wave On-Off	OFF	ON/OFF
Lock Outs	OFF	ON/OFF
Anti Vandal Time	*1 Minute*	*According to relevant channel selection*
Automatic Purge	OFF	ON/OFF
Purge Run Time	*1Minute*	*According to relevant channel selection*
TIMED FLUSH SET UP		
Fill Start / Stop	Press OK (and follow on screen instructions)	
Day Of Week	Mon	Mon, Tue, Wed, Thu, Fri, Sat, Sun, Mon-Fri
First Flush At	*07:00*	*Set via 15min increments*
Last Flush At	18:30	*Set via 15min increments*
No of Flushes	15(046min)	1-40
Flushing Off		
Flushing On		
Test / Hygiene Flush		
URINAL MENU		
Pre-Flush Wait	1 Second	1 & 2 Seconds
Pre-Flush Time	OFF	OFF, 1, 2 & 3 Seconds
Main Flush Time	2.0 Seconds	2 - 10 Seconds in 0.5 second increments
Sensor Range	5	1 - 10
Automatic Purge	OFF	OFF, 6, 12, 24, 36, 48 & 72 Hours
Purge Run Time	4 Seconds	2, 4, 6, 8 & 10 Seconds
SHOWER MENU		
Run Time	1 Minute	30 Seconds, 1, 2, 3, 4 & 5 Minutes
Sensor Range	2	1 - 3
Wave On/Off operation	OFF	ON/OFF
Anti Vandal Time	Run+10s	Run+10s
Automatic Purge	OFF	OFF, 3, 6, 12, 24, 36 & 48 Hours
Purge Run Time	1 Minute	30 Seconds, 1, 2, 4 & 8 Minutes
Lock Outs	OFF	OFF, 4, 6, 8 & 10 Ops
BATH MENU		
Run Time	2 Minutes	1, 2, 3, 4, 8 & 10 Minutes
Sensor Range	2	1 - 3
Wave On/Off operation	OFF	ON/OFF
Anti Vandal Time	Run+10s	Run+10s
Automatic Purge	OFF	OFF, 6, 12, 24, 36, 48 & 72 Hours
Purge Run Time	1 minute	30 Seconds, 1, 2, 4 & 8 Minutes
Lock Outs	OFF	OFF, 2, 4, 6 & 8 Ops

	DEFAULT SETTINGS	OPTIONAL SETTINGS
AUTO FLUSH VALVE MENU		
Range	5	1-10
User Detect Time	5 Seconds	1-10 Seconds
Dual Detect Time	20 Seconds	10, 12, 14, 16, 18, 20, 22, 24, 26 & 28 Seconds
Flush Time(s)	4 Seconds	2, 2.5, 3, 3.5, 4, 3/4.5, 3/5, 3.5/5.5, 4/6 & 6.5 Secs
Walk Away Time	2 Seconds	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 & 5.5 Seconds
Automatic Purge	OFF	OFF, 3, 6, 12, 24, 36, 48 & 72 Hours
Purge Run Time	4 Seconds	2, 3, 3.5, 4, 4.5, 5, 5.5, 6 & 6.5 Seconds
Lock Outs	OFF	OFF, 2-10 Ops
WAVE FLUSH VALVE MENU		
Flush Type	Single	Single or Dual
Flush Time(s)	4 Seconds	2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6 & 6.5 Seconds
Range	2	1-3
Automatic Purge	OFF	OFF, 3, 6, 12, 24, 36, 48 & 72 Hours
Purge Run Time	4 Seconds	2, 3, 3.5, 4, 4.5, 5, 5.5, 6 & 6.5 Seconds
Lock Outs	OFF	OFF, 2-10 Ops
CHLORINATE MENU		
Chlorination Time	2 Minutes	1, 2, 3, 4, 5, 10, 20 & 30 Minutes
Abort and Reset		
Washroom Channel	1-12	
CONTROLLER MENU		
Start Hot Purge 1		
Start Hot Purge 2		
Start Hot Purge 3		
Hot Purge Durn.	OFF	OFF, 1, 2, 3, 5, 10, 15, 20 Minutes
Mix Purge Durn.	OFF	OFF, 1, 2, 3, 5, 10, 15, 20 Minutes
Mix Purge Period	OFF	OFF, 1, 2, 3, 6, 12, 24, 48 Hours
Run On Time	2 Seconds	OFF, 2, 5, 10, 20, 30, 40, 50, 60 Seconds
Controller ID	Undefined	
CONTROLLER SETUP		
Controller Reset		
Controller Default		
Controller Test		
Controller Calibrate 20C		
Controller Calibrate 45C		
Controller Calibrate 70C		
SYSTEM MENU		
Standby Mode	OFF	ON
Reset Stats Count	0	
Firmware Update		
Battery Voltage	*Check programmer status*	
Firmware Version	*Check programmer status*	
Programmer ID	*Check programmer status*	
Device ID	Blank	