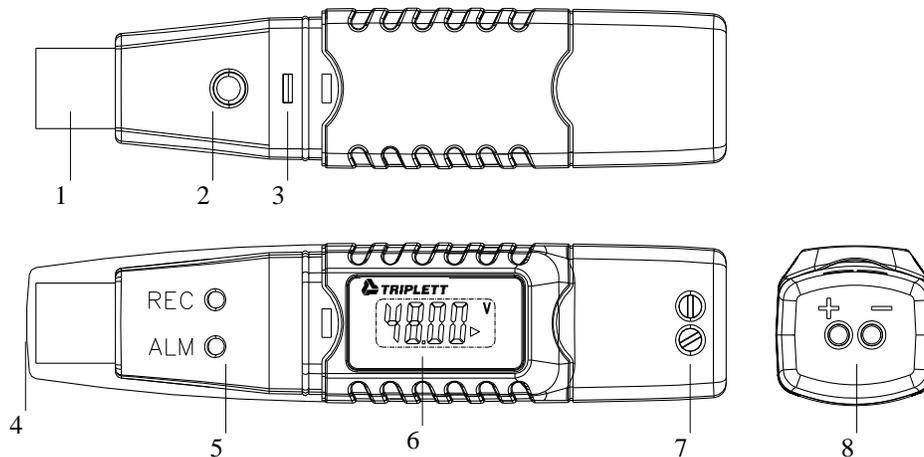△ **TRIPLETT**

VDL48
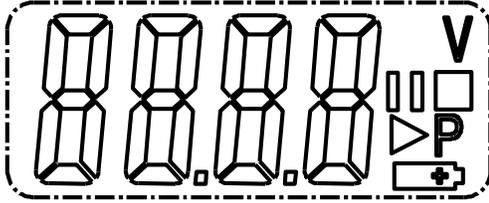**DC Voltage Datalogger (0 to 48V)**

 C E

1.Product overview

① USB connection plug

② Key

③ Case buckle

④ Protective cap

⑤ Red and green LED control light

⑥ LCD

⑦ Measuring wire set screw

⑧ Measuring wire ports

2.LCD indicators

The current state of the recording is indicated by the following symbols:

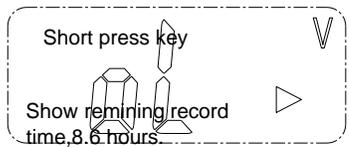V is voltage unit

II Waiting to press the button to start

▷ Recording started

□ Recording stopped

□
℗ This indicated that the device is configured and recording is not started. It will disappear as soon as the logger is recording data.

⊞ Low power indicator

State 1:

II   The logger is in the "Manual(Start upon key pressing)" mode, but the start key has not been pressed yet.

State 2：

▷   The logger is recording.

State 3:

Firmware upgrade:
connect to PC, copy the
firmware file to the logger
disk, waiting 2 minutes.

□   Recording is stopped.

Firmware upgrade:

Show remining record time,8.6 hours.

Stop recording

Short press key

After 108 days

Short press key, until display "STOP"

Long Press key

Show remining record time,108 days.

Stop recording

OL sign:

Short press key

After 8.6 hours

Show remining record time,8.6 hours.

Stop recording

Short press key, until display "STOP"

After 108 days

Measurement error or measured values beyond the range.

Show remining record time,108 days.

Stop recording

2.Start Recording

This page is available if the logger is in "Start at key press" mode.

Short press key

After 8.6 hours

After Setting "Start upon keypress"mode Waiting start

Show remining record time,8.6 hours.

Stop recording
Long Press key

Short press key until display "STOP"

After 108 days
Long Press key

Short press key until display "STOP"

Show remining record time,108 days.

Stop recording
Long Press key

3.Stop Recording

Select this function to stop recording if the logger is programmed for manual stop. Press and hold the button for three seconds to terminate recording.

Short press key

After 8.6 hours

Firmware upgrade: connect to PC, copy the firmware file to the logger disk, waitting 2 minutes.

Short press key until display "up"

Short press key until display "STOP"

Show remining record

Stop recording
Long Press key

Short press key until display "STOP"

After 108 days
Long Press key

Show remining record

Stop recording
Long Press key

4.Remaining Recording Time

Shows the remaining time until end of recording.

Short press key, until display "up"

After 8.6 hours
Long press key

Firmware upgrade: connect to PC, copy the firmware file to the logger disk, waitting 2 minutes.

After Setting "Start upon keypress"mode Waiting start

Long Press key

Short press key until display "STOP"

After recording

Show remining record time,8.6 hours.

Short press key

After 108 days

Show remining record time,8.6 hours.

Short press key

Stop recording

Show remining record time,108 days.

After 8.6 hours

Firmware upgrade: connect to PC, copy the firmware file to the logger disk, waitting 2 minutes.

Show remining record time,108 days.

Stop recording
Long Press key

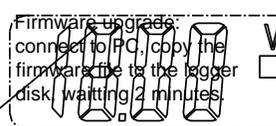Short press key

After 8.6 hours
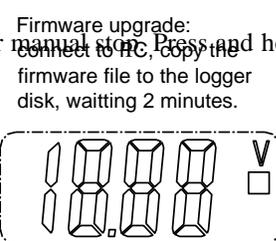
5.Firmware upgrade

Show remining record time,8.6 hours.

After 108 days
After 8.6 hours

Show remining record time,108 days.

Stop recording

Short press key

After recording

Firmware upgrade: connect to PC, copy the firmware file to the logger disk, waitting 2 minutes.

Short press key until display "up"

After 108 days
Long press key

Show remining record time,108 days.

Stop recording

Short press key

After 108 days
Long Press key

After Setting "Start upon keypress"mode Waiting start

Stop recording

Show remining record
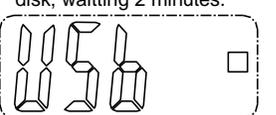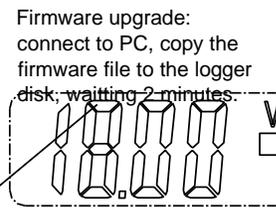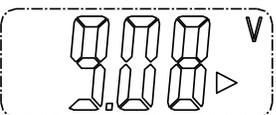
Then insert the device into the PC USB port. The device will appear as a Mass Storage Device in PC with no content. Drag and drop the firmware to the folder. The device will disappear in the OS. DO NOT unplug the device from PC. After upgrade completed, Device will automatically appear as a Mass Storage Device again. The firmware version is indicated in the left bottom corner of the ".pdf" test report generated.

6.Generating a PDF-File

As soon as the logger is connected to a USB-slot, a PDF file with all recorded data in chart and an overview of alarms is generated automatically. The red led indicator lights up during PDF generation.

Depending on the number of stored measurements, generating the PDF-file might take up to 60 seconds.

As soon as the logger is reprogrammed, the PDF file on the logger will be deleted.

7.LED Status Guide

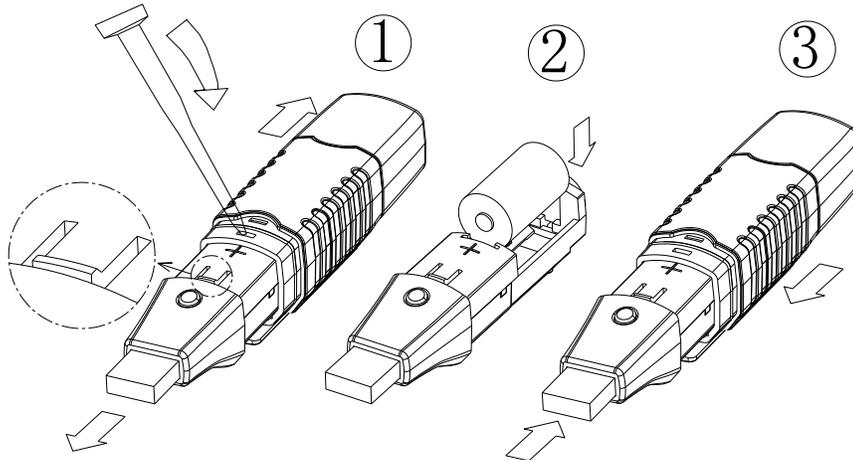| LED Indication	Action
Cycle green single flash	-Logging
Cycle red single flash	-Logging, low alarm or high alarm. -Manual mode waiting start -Memory full -Stop upon stop time -Stop upon key
Green double flash one time	-Setup successful -check upgrade file successful

8.Specification

DC Voltage DataLogger	Range	48.00V （DC Voltage DataLogger）
	Resolution	0.01
	Accuracy	0.5%reading+3
Logging rate	1second—24h	
Display refresh rate	2seconds (after the key operation, within 5minutes). Default 30 seconds.	
Memory	31320	
Operating Environment	0 to 50 ℃(32 to 104 ℉) <80%RH	
Storage Environment	-10 to 60 ℃(14 to 140℉) <70%RH	
Battery type	LS14250	
*Accuracy: test at 23±5℃.		

Sample Rate	Record Time	Sample Rate	Record Time
1second	8.7hour	20second	7.2day
2second	17.4hour	30second	10.8day
3second	26.1hour	1minutes	21.7day
4second	34.8hour	5minutes	108.7day
5second	43.5hour	15minutes	326.2day
10second	87.0hour	30minutes	652.5day

9.Replacing the Battery

Battery Type: 3.6V 14250 lithium battery