

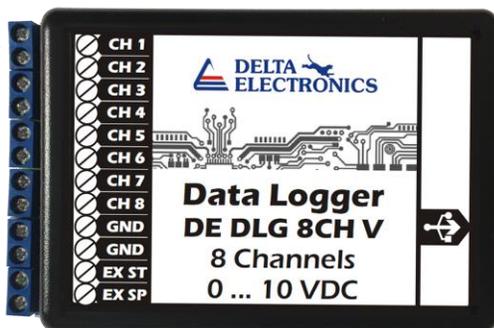
Data Loggers DE DLG 8CH

8V, 8I, 4U4I, W8V, W8I, W4U4I

User Manual

USER-FRIENDLY SCADA INCLUDED

USB models



WiFi models



10 ms Real-Time Data Monitoring

CONTENT :

<u>Introduction</u>	<u>03</u>
<u>Features</u>	<u>03</u>
<u>DE DLG 8CH Product range</u>	<u>04</u>
<u>Downloads</u>	<u>04</u>
<u>Electrical connections</u>	<u>05</u>
<u>Step By Step Guide</u>	<u>06</u>
<u>Using SCADA software</u>	<u>06</u>
<u>Reporting logged data</u>	<u>09</u>

Introduction

DE DLG 8CH is an 8-channels, current/voltage DC data logger. Input current/voltage signals can be from sensors, transducers, transmitters or any other common current/voltage sources.

12-bit ADC makes it well suited for industry and laboratory applications where precise and accurate measurements are critical. Processor is STM 32-bit.

Simply plug the logger to computer's USB port or use WiFi connection feature, and the software automatically recognizes it and handles the configuration, downloading, graph viewing and more...

Features

- Extremely easy to use data logger with SCADA software
- Software is free to download for all data logger models
- Data sampling from 10 ms for all 8 channels connected
- Real time data monitoring feature on connected PC
- External START and STOP inputs for logging data process
- 12-bit analog-to-digital converter
- Both USB and WiFi interfaces with auto baud rate of 115200 bps
- Input ranges (4-20mA, 0-10VDC)
- 32-bit MCU

DE DLG 8CH Product range

Model	Connection	Input data	Input data
V	USB	8 inputs 0 ... 10 VDC	
I	USB	8 inputs 4 ... 20 mA	
4V4I	USB	4 inputs 0 ... 10 VDC	4 inputs 4 ... 20 mA
WV	WiFi connection	8 inputs 0 ... 10 VDC	
WI	WiFi connection	8 inputs 4 ... 20 mA	
W4V4I	WiFi connection	4 inputs 0 ... 10 VDC	4 inputs 4 ... 20 mA

Downloads

[Web page for DE DLG 8CH Data Loggers](#) [Visit page](#)

[DE DLG 8CH models Data Sheet](#) [Download](#)

[DE DLG 8CH models User Manual](#) [Download](#)

[SCADA Software for WiFi DE DLG 8CH models](#) [Download](#)

[SCADA Software for USB DE DLG 8CH models](#) [Download](#)

[STM Driver - VCP V1.5.0 Setup W7 x86 32bits](#) [Download](#)

[STM Driver - VCP V1.5.0 Setup W7 x64 64bits](#) [Download](#)

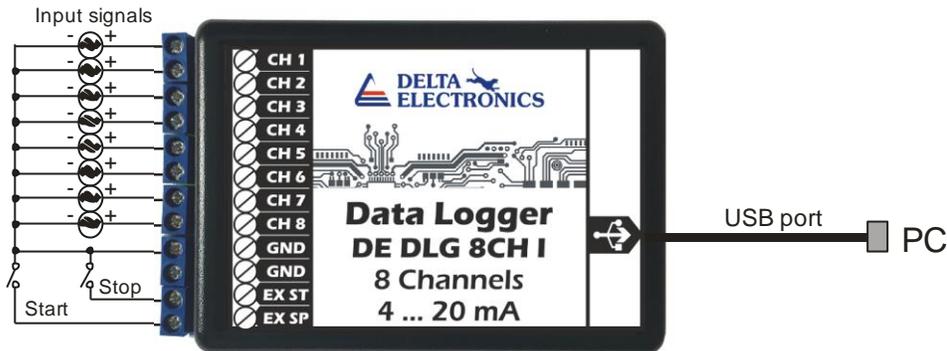
[STM Driver - VCP V1.5.0 Setup W8 x86 32bits](#) [Download](#)

[STM Driver - VCP V1.5.0 Setup W8 x64 64bits](#) [Download](#)

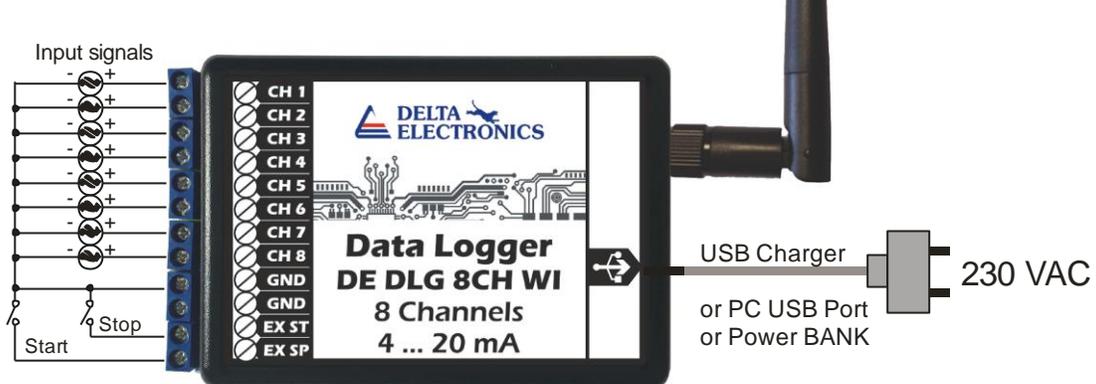
Electrical connections

On image below is described data logger electrical connection. You can connect up to 8 X voltage 0 ... 10 VDC or 8 X current 4 ... 20 mA or combined 4 X voltage + 4 X current inputs according to model. There are also optionally external inputs for starting and stopping data logging. It is optionally to use. You can always control data logging from SCADA software interface.

USB MODEL CONNECTION



WIFI MODEL CONNECTION



Step By Step Guide

After ordering Data Logger first step is to download necessary files, install all and prepare your PC for connecting to the data logger and start measure and logging activities.

1. Download and install free [Java software to your PC.](#)
2. Download and install STM driver to your PC (32 bit, 64 bit, W7, W8...) – [Only for USB models.](#)
3. Download FREE SCADA software for data logger – [USB or WiFi SCADA version from website.](#)

After downloading and installing all software your data logger is ready for connection and action. If you ordered data logger without WiFi connection you need to connect data logger with USB cable to your PC USB port.

Using SCADA software

Click (or double click) to SCADA software file that you placed on your PC folder. You can also create icon on desktop for easier SCADA software starting.

After Delta Electronics welcome screen appears SCADA window for adjusting measuring parameters and monitoring, logging and reporting features (FIG 1). There are basically 4 sections to describe:

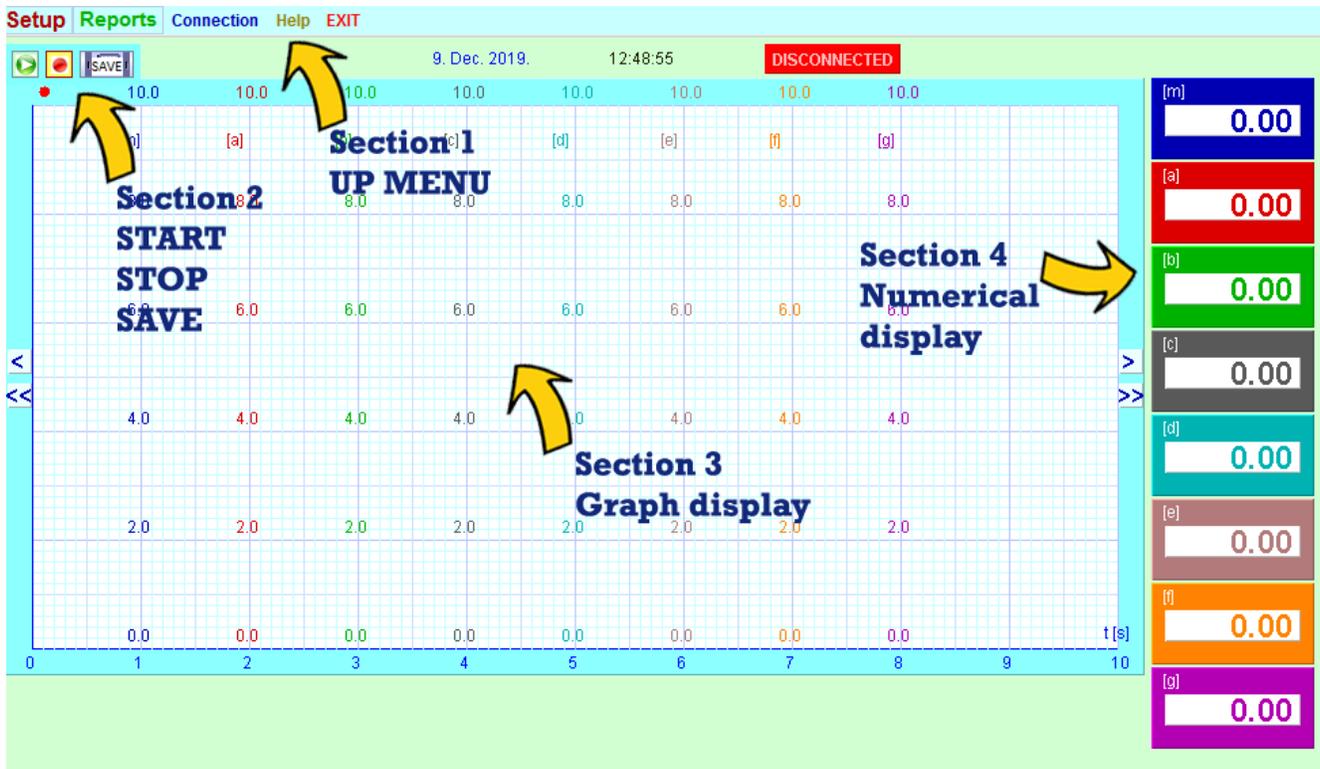


FIG 1

FROM SECTION 1 DROP DOWN MENU YOU CAN CHOOSE COMMANDS FOR DATA LOGGING.

Setup -> ON (see FIG 2) to turn on window for setting parameters (see FIG 6).

Setup -> OFF (see FIG 2) to close setting window.

Setup -> Save (see FIG 2) to save adjusted parameters.

Report -> Open (see FIG 3) to choose saved report for displaying.

Report -> Save Report (see FIG 3) to save current measurement to report.

Report -> Exit (see FIG 3) to exit report mode.

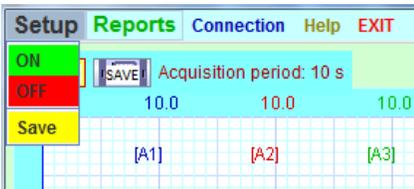


FIG 2

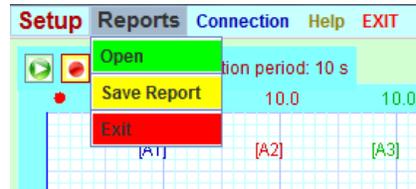


FIG 3

Connection -> Connect (see FIG 4) to establish connection with data logger.

Connection -> Disconnect (see FIG 4) to disconnect connection with data logger.

Help -> ON (see FIG 5) Open help for data logger.

HELP -> OFF (see FIG 5) Close help for data logger.

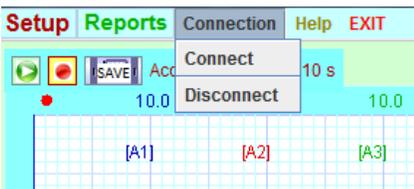


FIG 4

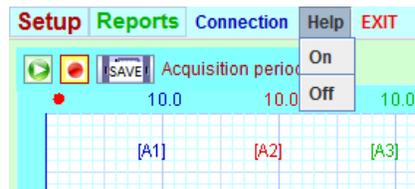


FIG 5

EXIT to exit SCADA software.

FROM SECTION 2 YOU CAN CONTROL START / STOP OF DATA LOGGING (SEE FIG 6).

With button **PLAY** start data logging.

With button **STOP** halt data logging.

With button **SAVE** record logged data to report.

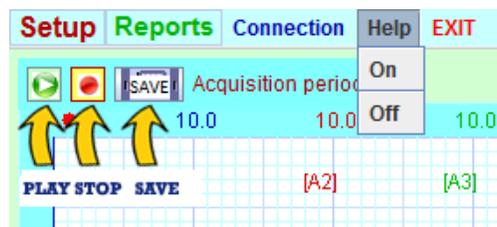


FIG 6

Acquisition tab (see FIG 7):

Here you can to set basic data about measurement: Report Mark, Operator name. You can also choose Acquisition period in seconds, sampling data time. All you have to do is to choose options, click Save and switch to next tab: Analog Inputs.

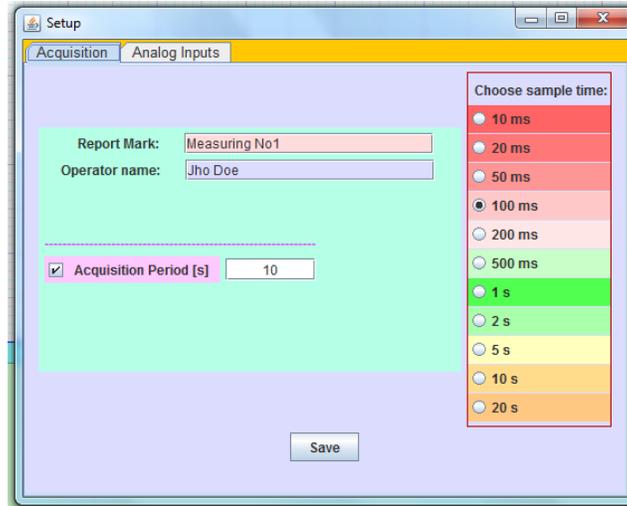


FIG 7

Analog Inputs tab (see FIG 8):

On this tab you can choose number of channels, colors for displaying channels, units for channels, ranges for channels and type of inputs (current or voltage). For example you can choose **bar** units with range **from 0 to 350** and with **Output 0 ... 10 VDC**. That means you have connected on that channel pressure transducer with analog output signal 0 ... 10 VDC and pressure range 0 ... 350 bar. Click Save and X to close setting window.

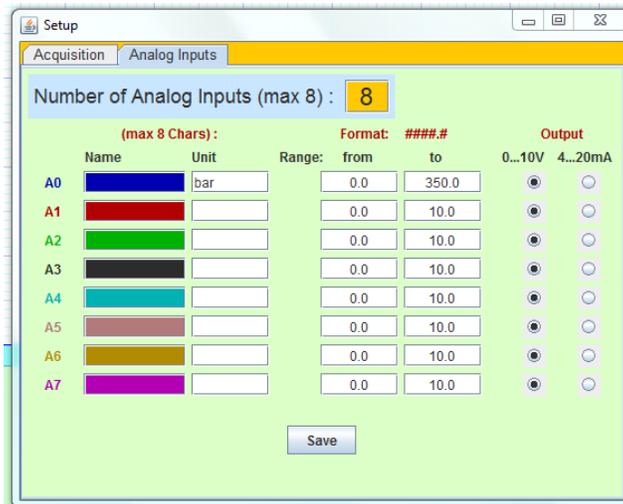


FIG 8

SECTIONS 3 AND 4 ARE FOR DISPLAYING IN REAL TIME MONITORING CONNECTED DATA IN GRAPHICAL AND NUMERICAL WAYS.

Reporting logged data

Manipulation with data from reports is very easy. Just open saved report (see FIG 9) and you will see all data in multiple variations (graphically or tables).



FIG 9

From up dropdown menu is very easy to turn ON and OFF table, adjust viewing with multiple zoom commands, prearranged views, print all data ...

Choose your data logger

DE DLG 8CH



- 1. V 8 ch 0...10 VDC
 - 2. I 8 ch 4...20 mA
 - 3. 4V4I 4 ch 0...10 VDC, 4ch 4...20mA
-
- 1. Blank USB
 - 2. W WiFi