Tech note – DV-TCU-DL - Retrieve-Store logged data
by: *Remco van Hardeveld* - 12 October 2016
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Noldus
Information Technology

Project Name	DanioVision – Temperature Control Unit – Data logger
Subject	Retrieve and Store logged data
To	Noldus Service-Support
Created by	Remco van Hardeveld

Technical note:

Data logging system – Retrieve/ Store logged data

Author	Version No.	Date	Comments
Remco van Hardeveld	1.1	11-10-2016	

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1   INTRODUCTION

The newest models of the DV-TCU (DVTCU-0011) or updated older models are equipped with a system to log measured data. From this measured data, the DV-TCU generates its errors indicated with a blinking red LED on the lid of the DV-TCU.
In the past, the blinking LED was the only way to indicate why the DV-TCU is in shutdown. With the new data logging system a wide range of data is available. Due to the design of the system, every user of the DV-TCU should be able to provide the data to the Noldus support staff. With these extra parameters, they should be able to pinpoint the problem better than only with a single blinking LED.

This document describes how the logged data can be accessed and stored and what data needs to be selected for the support staff.

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2   RETRIEVE LOGGED DATA

The logged data is stored on a SD card inside the DV-TCU and is easily accessible within a few short steps. It only requires a coin or large flat screwdriver:
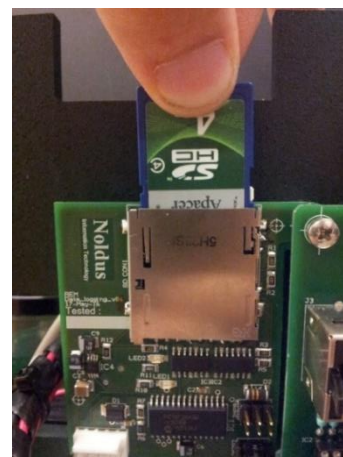
1. Before opening the DV-TCU lid and accessing the SD card, shutdown the DV-TCU (rocker switch in the middle position or disconnect the power connector on the back panel);
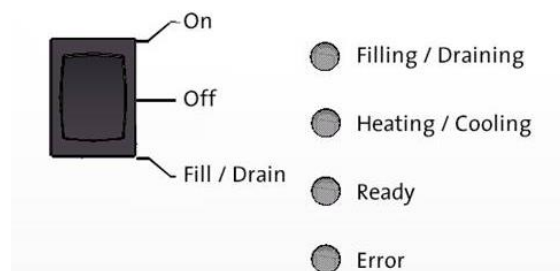

2. Put the DV-TCU in front of you. Using a coin or large flat screwdriver, remove the front screw and open the lid of the DV-TCU. Place the DV-TCU in front of you, with the lid on your right hand side;

3. Push down on the SD card until you hear a clicking sound (SD card is located on the upper left side on the middle panel). After the click pull the SD card out of the connector;

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4. Place the SD card in a corresponding SD card reader on a computer (if the computer doesn't have a card reader, an suitable external adapter with USB can be purchased in any electronics store);
5. Open Computer/My computer/This PC (shortcut: Windows key + E);
6. Double-click on the SD card, it could be labeled as "Secure Digital storage device" (other names or abbreviations are possible);
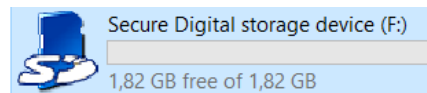
7. Copy all the existing Text Documents to a place on the computer where it can be easily accessed (a suggested option would be the "Desktop"). **Do not delete the files on the SD card**;

TCU_LOG0		Text Document	2 KB
TCU_LOG1	11-5-2016 08:26	Text Document	2 KB
TCU_LOG2	11-5-2016 08:26	Text Document	2 KB
TCU_LOG3	11-5-2016 08:26	Text Document	2 KB

8. Put the SD card back in place (SD card is correctly inserted after you heard two clicks and the SD card protrudes around 5mm above the connector);
9. Close the lid of the DV-TCU. **Make sure the cables are not stuck between the lid and the sidewalls**;
10. Put the plastic screw back in place and tighten it.

The logged data files are now retrieved and can be send to the appropriate person (Noldus support staff or the person asking for them).

3 STORE LOGGED DATA

Whenever data is received from a customer it has to be stored on the Noldus network on the Y: drive folder
Company\Operations_Support\Support\Technical Support\Daniovision\DVTCU Logger Data
for further investigation.

Within this folder you've to create a subfolder named DVTCU_xxx
Xxx stands for the actual serialnumber of the DVTCU involved.

Again create a subfolder in the serialnumber folder with the actual date name yyyy-mm-dd (year-month-day).
This may result in several date named folders whenever it is needed to have more logger data later on.

Have a look in the already available (demo) folder for DVTCU serialnumber 000