

The DOP 4 software is a tool for calibrating, analyzing and fine tuning measurement parameters for a number of the Group four digital load cells and digital amplifier devices for weighing and force measurements.



**DOP 4**

Device Operating Program

Version 2.0.2.0

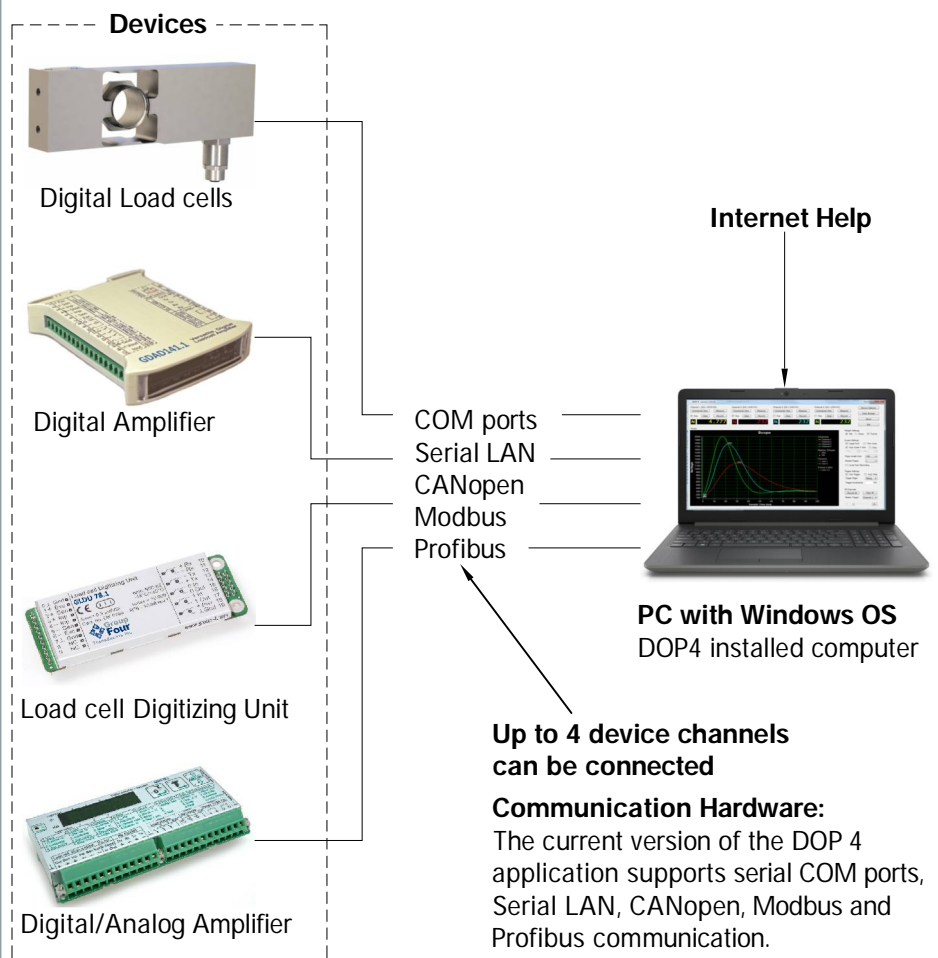
**FEATURES**

- User friendly software with free updates.
- Device output can be monitor real time.
- Up to 4 device channels can be monitored.
- Supports serial COM ports, Serial LAN, CANopen, Modbus and Profibus communication.
- Device configuration commands automatically previewed in command view with online help.
- Special Dialogs for filling and check weighing applications.
- Long time recording with high update rate.
- Unlimited data storage capacity.
- Special analytical tools are available for setting trigger time, measurement time and filter adjustment.
- Online help available for DOP4 running PC with Internet connection.

**APPLICATIONS**

- Real time monitoring, data storing and analyzing of digital load cells and digital amplifier devices.

**DIAGRAM FOR EXTERNAL DEVICE CONNECTIONS**



**Up to 4 device channels can be connected**

**Communication Hardware:**

The current version of the DOP 4 application supports serial COM ports, Serial LAN, CANopen, Modbus and Profibus communication.

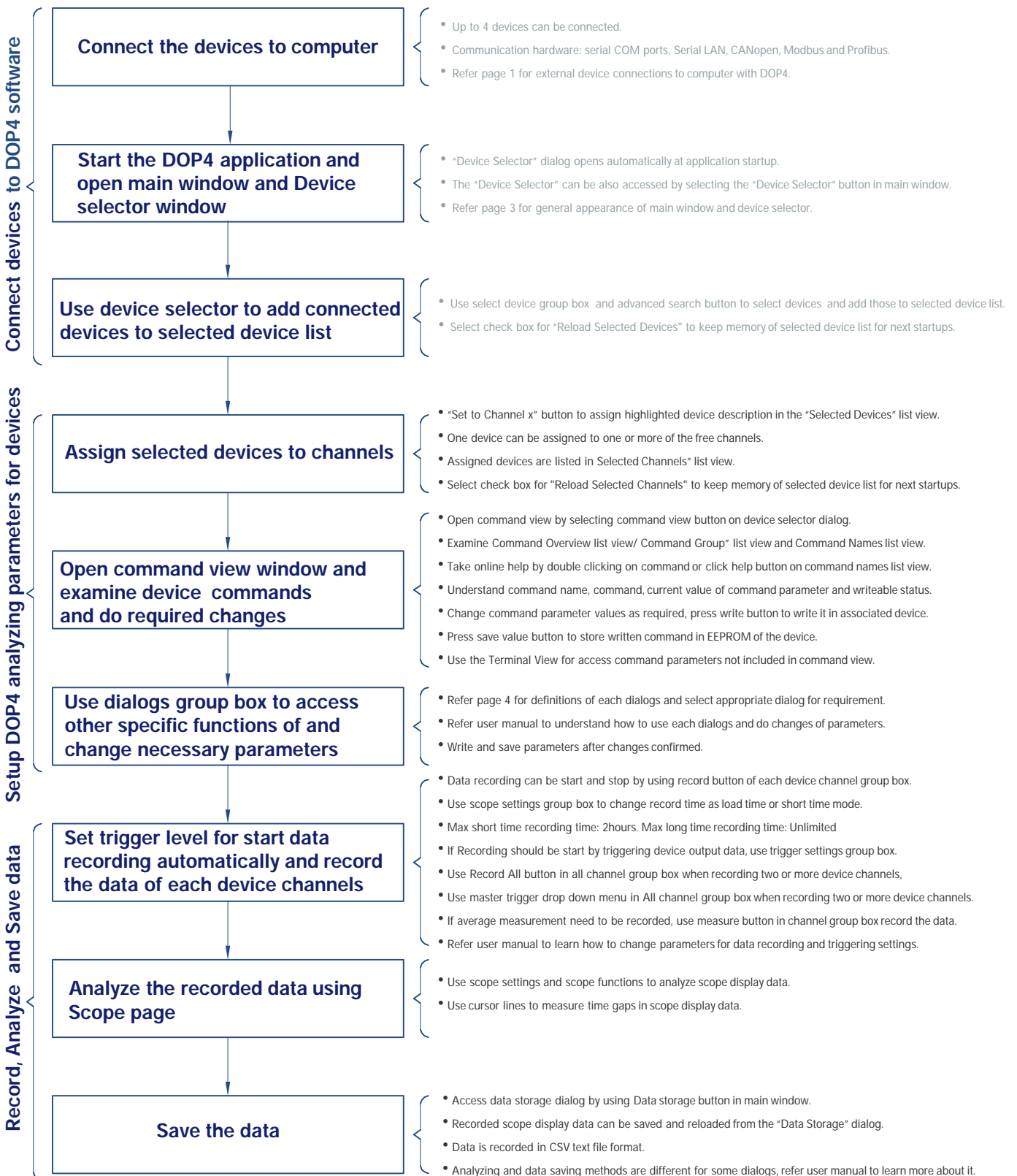
**Supporting devices for DOP4:**

- Complete range of Group four Digital load cells.
- Load cell digitizing units and digital / analog amplifiers.
- All new devices released by Group four transducers.

# software program

# DOP4

## FLOW CHART FOR QUICK START



# software program DOP4

## Main Window (Application Startup)

The screenshot shows the DOP4 software interface with the following labeled components:

- Measure button**: Located above each of the four channel groups.
- Channel group boxes**: Four groups labeled Channel 1 (D8 = WCN122), Channel 2 (D4 = DAD141), Channel 3 (D4 = DAD141), and Channel 4 (D4 = DAD141).
- Scope functions**: Buttons for Scope, Clear, and Record within each channel group.
- Device selector button to access device selector dialog**: A button labeled 'Device Selector' in the top right.
- Data storage button**: A button labeled 'Data Storage' in the top right.
- Scope settings**: A panel on the right containing 'Weight Settings', 'Scope Settings', and 'Trigger Settings'.
- Trigger settings**: A sub-section within the 'Trigger Settings' panel.
- All channels group box**: A panel at the bottom right for managing all channels, including 'Record All', 'Clear All', and 'Master Trigger' options.

The main display area shows a 'Scope' plot of Net Weight vs. Sample Time (ms) with four channels and their respective 'Max' and 'Min' markers.

## Device Selector Dialog

The screenshot shows the 'HB Device Selector' dialog box with the following labeled components:

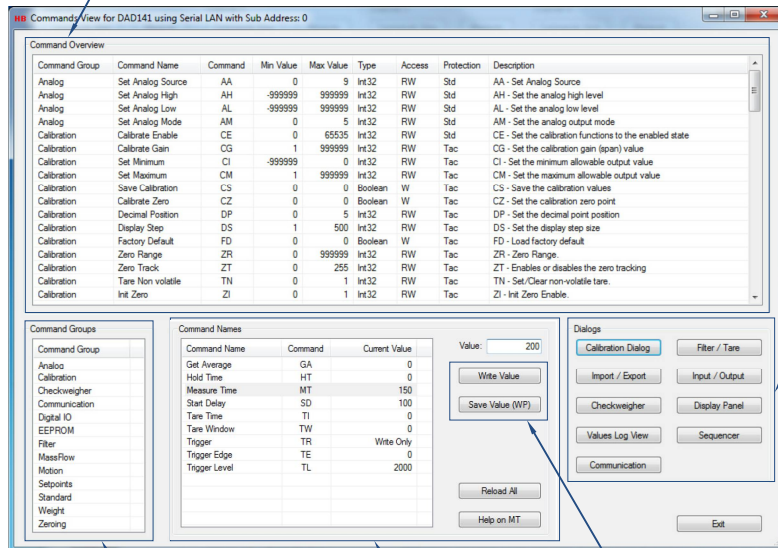
- "Selected Devices" list view**: A table listing available devices with columns for Index, Device Name, Id, Version, Hardware, Port Name, Baud Rate, Address / IP, and Sub Addr.
- Check box for "Reload 'Selected Devices'"**: A checkbox to refresh the device list.
- "Selected channels" list view**: A table showing currently selected channels with columns for Channel, Device Index, Device Name, and Device Id.
- "Set to Channel x" buttons**: Buttons for 'Set to Channel 1' through 'Set to Channel 4'.
- Command view button**: A button labeled 'Commands View'.
- Terminal view button**: A button labeled 'Terminal View'.
- Select device group box**: A section for selecting a device, including dropdowns for Hardware, Port / Bus, Baud Rate, Address / IP, and Sub Address.
- Advanced search button**: A button for performing advanced searches.
- Check box for "Reload 'Selected Channels'"**: A checkbox to refresh the selected channels list.

Additional buttons include 'Remove Device', 'Remove Channel', 'Start Test Stream', 'Advanced Search', 'General Configurations', and 'Exit'.

# software program DOP4

## Commands View

Command Overview list view



Save value button

Select device group box

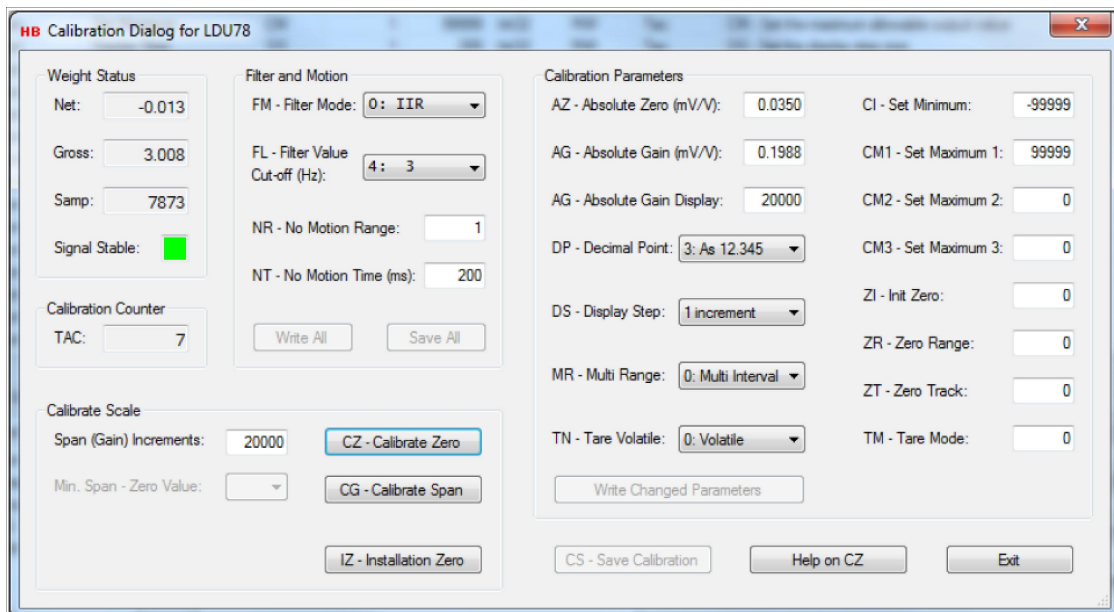
Command names group box

Write and Save value button

## Most Important Dialogs

### Calibration Dialog

If zero and span calibration is to be performed, or the value of the "Decimal Position", is to be changed, it's recommended that the special dialog "Calibration Dialog" is used.

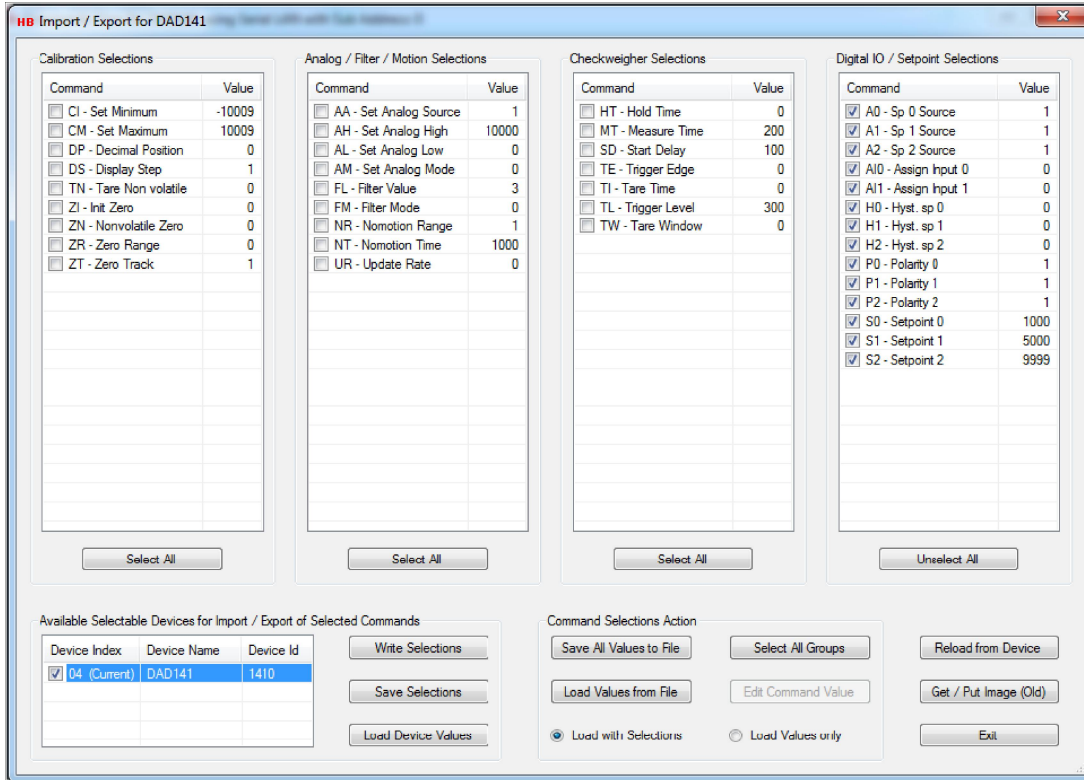


# software program

# DOP4

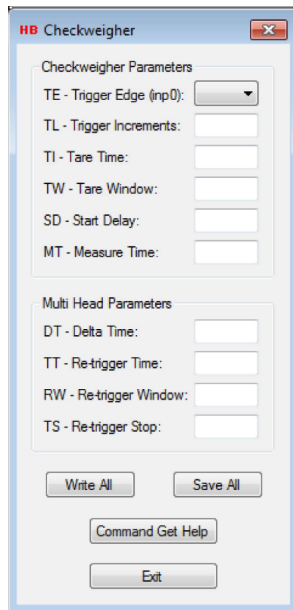
## Import / Export Dialog

For exporting and importing selected command parameters to one or more group-4 devices, the special dialog "Import / Export" can be used.



## Checkweigher Dialog

For changing checkweigher or filling command parameter values the special dialog "Checkweigher" or "Filling" dialog depending on the currently selected group-4 device can be used.



## software program

# DOP4

### Other Dialogs

#### Filter / Tare

For changing filter command values and setting tare, it's recommended that the special dialog "Filter / Tare" is used.

#### Input / Output

For changing setpoints and digital IO command parameter values and monitoring input / output values the special dialog "Input / Output" can be used.

#### Display Panel

For having a big weight display to be watched from distance, the "Display Panel" dialog can be used.

#### Values Log View

For viewing, saving or printing all of the command parameter values for the currently selected device, the "Values Log View" dialog can be used.

#### Sequencer Dialog

For sending a sequence of specific commands to the current device with a controlled delay between the defined commands the "Sequencer" dialog can be used.

#### Communication

For setting up communication parameters for serial communication devices, the "Communication" dialog can be used. (Only for devices connected by Serial COM or Serial LAN interface).

#### The Terminal View

The "Terminal View" dialog is a dialog tool for sending raw parameter commands to the device and to examine the received command responses. The "Terminal View" dialog comes in two versions, one version for devices using Serial COM and Serial LAN as communication interface, and one version for devices using CANopen as communication interface

*This data sheet provides basic structure and features of the DOP4 program. Refer user manual and quick start guide to learn how to use software functions in detail. User manual and Quick start guide is available on request.*



**Pioneering Measured Solutions**

**Group Four Transducers**  
22 Deer Park Drive,  
E. Longmeadow, MA 01028  
www.groupfourtransducers.com

Phone : **(800) 419 1444**  
Fax : (413) 525 -6182  
sales@group-4.com