

## DP2xx series – EIC Engine Information Center



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## Before You Start

Thank you for purchasing the Danfoss DP2xx Series Graphical Terminal. This package contains the following items:

- One (1) DP2xx Series Graphical Terminal
- One (1) Panel Seal Gasket
- One (1) Mounting Bracket
- Four (4) Bracket Mounting Screws
- One (1) DP2xx Series Graphical Terminals User Manual

Please ensure all parts are included prior to use.

## The Engine Information Center (EIC)

The DP2xx Series Graphical Terminal comes installed with the powerful and flexible Danfoss Engine Information Center (EIC) J1939 engine monitor software application. Use the application to customize the look and feel of your individual engine monitoring needs by creating and controlling analog and digital display information in the screen configurations that work best for your performance requirements.

Navigate through diagnostic information and configuration screens with ease by using the four context-dependent soft keys located at the front of the display. Choose from 50 different monitoring parameter profiles to customize the DP2xx terminal.

Up to four signals can be monitored on each screen. Use the Engine Information Center software to configure the DP2xx for alarms and alerts.

## Brightness/Contrast Adjustment

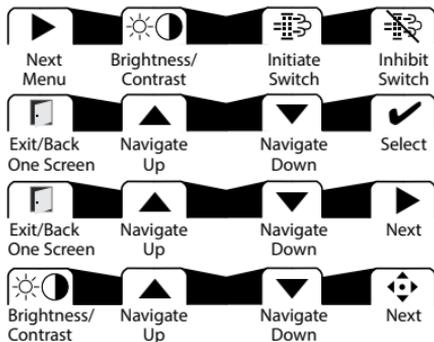


Adjust brightness and contrast levels by pressing soft key 2. This will display the brightness and contrast soft key bar. The bar will disappear after 3 seconds of inactivity.

## Navigation Using Soft Keys

The DP2xx Series Graphical Terminal is controlled by navigation through a set of four soft keys located at the lower front of the display. The keys are context dependent. Soft key selection options are displayed above each key and are dependent on the current navigation location within the engine monitor software program. As a general rule, the far right soft key is the selector button and the far left soft key is the step back one screen key. To optimize full screen use, the on-screen selections are not displayed when not in use. Press any soft key to display current selection options. The selection options will be displayed for three seconds.

## Navigation Using Soft Keys



## Screen Navigation

|                      |   |
|----------------------|---|
| Brightness/Contrast  | Press to access brightness and contrast settings    |
| Navigate Up          | Press up to move up through menu items or screens   |
| Navigate Down        | Press up to move down through menu items or screens |
| Main Menu            | Press to go to Main Menu screen                     |
| Exit/Back one screen | Press to go back one screen                         |
| Select               | Press to accept selection                           |
| Next                 | Press to select next digit or screen element        |
| Initiate Switch      | Press to force regeneration of particulate filter   |
| Inhibit Switch       | Press to inhibit particulate filter regeneration    |
| Previous             | Press to navigate to previous menu                  |

**EIC DP2xx Force and Inhibit Regeneration software function description**

While the unit is displaying one of the Monitor Screens, pressing any soft key will show the available Navigation actions in an action menu. There are two separate action menus on this level; the first one to appear contains the following actions (from left to right):

- Next Menu
- Screen Brightness/Contrast
- Initiate Switch (Force Regeneration)
- Inhibit Switch (Inhibit Regeneration)

Selecting 'Next Menu' will display the second action menu with actions unrelated to the function described herein. Pressing it again will show the first set of actions once more. If no soft keys are pressed and released for 2.5 seconds while the action menu is shown the menu will disappear and the actions are no longer available. Pressing (and releasing) any soft key will activate the first menu once more.

- **Force Regeneration action**

If the user selects the Force Regeneration action while the action menu is being displayed; bit 2 (out of 0-7) in byte 5 (out of 0-7) will be set to 1 (true) in the J1939 message PGN 57344 bound for the engine. This change prompts the message to be transmitted. The bit will stay like this for the duration of the soft key press or for the 2.5 second countdown to soft key inactivity, whichever occurs first. The bit is then reset to 0 (false).

The soft key press also prompts the display to show a popup lasting for 5 seconds. This popup simply says “Regeneration Forced”. If the display does not receive an acknowledgement from the engine on the change to message PGN 57344 the last half of the popup will say “No Engine Signal”. This acknowledgement is the command that lights up the Forced Regeneration LED on the display unit housing.

- **Inhibit Regeneration action**

If the user instead selects the Inhibit Regeneration action while the action menu is being displayed the same function as described above will be executed, with some differences;

- Bit 0 (out of 0-7) in byte 5 (out of 0-7) is set to 1 (true) instead.
- The popup says “Regeneration Inhibit” instead.
- The acknowledgement lights up the Regeneration Inhibit LED instead.

## Main Menu

### Start Menu



### Start Menu – Main Menu

The Main Menu screen is the starting point for configuring the DP2xx Series Graphical Terminal.

### Main Menu

|                     |  |
|---------------------|--|
| <b>Basic Setup</b>  | Use to set Time/Date, Language and Units   |
| <b>Diagnostics</b>  | Use to set System Info, access Fault Log and J1939 lists.  |
| <b>Screen Setup</b> | Use to set Parameters, choose number of screens and select screen. (PIN protected)   |
| <b>System Setup</b> | Use to reset trip and default settings, access CAN information, select display settings and set PIN information. (PIN protected) |

**Main Menu***Basic Setup***Overview**

Use the Basic setup screen to set time, language and display units for the DP2xx series terminal.

*Basic Setup*

|                  |  |
|------------------|--|
| <b>Time/Date</b> | Use Time/Date to set, date and display style for time and date information.                      |
| <b>Language</b>  | Use Language to set the system language. The default language is English.                        |
| <b>Units</b>     | Use Units to set speed, distance, pressure, volume, temperature, fuel rate and economy settings. |

## Main Menu

### Basic Setup



### Time/Date

Use Time/Date screen to set Time, Date, calendar style and time style. Use up, down select and next soft keys to navigate.



### Language

Use Language screen to select program language. Languages available, English, French, German, Italian, Swedish and Spanish. The default language setting is English.

**Main Menu***Basic Setup***Units**

Use the up, down, select and next soft keys to define unit measurements.

*Unit Selection Options*

|                     |                     |
|---------------------|---------------------|
| <b>Speed</b>        | km/h, mph           |
| <b>Distance</b>     | km, mi              |
| <b>Pressure</b>     | kPa, bar, lbs/sq in |
| <b>Volume</b>       | l, gal, imp gal     |
| <b>Temperature</b>  | °C, °F              |
| <b>Fuel Economy</b> | l/100 km, mpg, mpig |
| <b>Fuel Rate</b>    | l/h, g/h, ig/h      |

**Main Menu***Diagnostics***Overview**

Use the Diagnostics screen to display current system information, view and monitor fault logs and display all J1939 devices connected to the graphical terminal.

*Diagnostics*

|                    |   |
|--------------------|---|
| <b>System Info</b> | Selecting System Info will display hardware, software, system and node information for connected devices.             |
| <b>Fault Log</b>   | Use Fault Log to view and monitor current and previous fault information.   |
| <b>Device List</b> | The Device List will list all currently connected J1939 devices.  |
| <b>Quick Data</b>  | Use Quick Data to set up a customized signal list that can be quickly scrolled through in one signal per page format. |

## Main Menu

### Diagnostics



### System Info

The system info screen displays the hardware system serial number, current software version, current system version and node number. Only information is displayed in the System Info window. No changes can be made.



### Fault Log

Fault information is saved and stored to the fault log. Select either Active or Previous Faults to monitor fault activity. Select specific faults to list more information.

## Main Menu

### *Diagnostics*

#### Fault Log: Active and Previous Faults



Selecting Active Faults in the Fault Menu will display all active faults on the CAN network.



Selecting Previous Faults in the Fault Menu will display all previously active faults on the CAN network.

**Main Menu***Diagnostics***Fault Pop-Up Alarms**

When a fault is detected on the CAN network, a flashing red warning alarm will be activated and a fault information pop-up window will be displayed listing current fault information.

Warning lights will flash when a pop-up alarm occurs and will stay flashing until acknowledged. Warning lights will remain lit until the fault is no longer on the CAN network.

*Fault pop-up soft key actions*

|  |   |
|--|---|
|  | Select to clear pop-up and return directly to previous display information            |
|  | Select to go to next fault information  |
|  | Select to go to previous pop-up information   |
|  | Select to clear pop-up and go to the current active fault complete information screen |

## Main Menu

### *Diagnostics*

#### **Fault Pop-Up Alarms**

- Faults that have been acknowledged and are no longer active will be shown in the Currently Active Faults log in italics.
- Faults no longer active will also be displayed in the Previous Faults log.
- Pop-up fault alarms can be disabled by setting the Fault Pop-Up to off in the CAN section of the System Setup menu.

## Main Menu

*Diagnostics*

## Device List



The Device List page will list all J1939 devices and addresses that are currently being monitored on the network.

## Main Menu

### Diagnostics

## Quick Data



The Quick Data function allows selected signals to be monitored in a scrollable single view display.

To select signals for display, press the far right soft key.



Quick Data softkey



Scroll through signal list using the up and down arrow soft keys and select/deselect signals for Quick View monitoring by pressing the far right (check mark) soft key. Signals selected for display will show an asterisks to the left of the signal name.

**Main Menu***Screen Setup***Overview**

Use Screen Setup to enter parameter settings, select number of signal screens and select individual screens for setup.

*Screen Setup*

|                          |   |
|--------------------------|---|
| <b>Parameters</b>        | Set Parameters for RPM, Speed, Fuel, Wheel and Pulse/Revolutions information.   |
| <b>Number of Screens</b> | Select Number of Screens for information display. Select from 1 to 4 screens for display.                                   |
| <b>Select Screen</b>     | Use to Select Screen to set up signal information. Number of screens available are dependent on number of screens selected. |

## Main Menu

### Screen Setup



### Parameters

Define system parameter ranges for revolutions per minute, speed, fuel, wheel diameter and pulses per revolution display settings.



### Number of Screens

Select number of screens for display. Choose from 1 to 4 screens. See page 22 for detailed screen set up tutorial.



### Select Screen

Select screen to customize. See page 27 for detailed screen setup tutorial.

**Main Menu***System Setup***Overview**

Use System Setup to monitor and control application systems. Reset to default settings, make CAN selections, control display settings, set PIN configurations and reset trip functions.

*System Setup*

|                       |  |
|-----------------------|--|
| <b>Reset Defaults</b> | Select to reset all system information to the default settings status. |
| <b>CAN</b>            | Select to customize CAN settings.                                      |
| <b>Display</b>        | Select to customize display settings.                                  |
| <b>PIN Setup</b>      | Use to set custom PIN settings.  |
| <b>Trip Reset</b>     | Select to reset all trip information.                                  |

## Main Menu

### System Setup



### Reset Defaults

Select Reset Defaults to reset all EIC settings to original factory default settings.



### CAN Settings

Use the CAN settings selection to make the following selections:

### CAN Settings

|                       |  |
|-----------------------|--|
| <b>Engine Address</b> | Select engine address. Selection range is 0–253.   |
| <b>CAN</b>            | Select 1, 2 or 3 to determine how to interpret non-standard fault messages. Consult engine manufacturer for correct setting. |
| <b>Fault PopUp</b>    | Select on or off to enable or disable on screen popup messages.  |

**Main Menu**  
*System Setup*



*Display Setting*

**Startup Screen**

Select to enable/disable logo display at startup

**Buzzer Output**

Select to enable/disable warning buzzer functionality.

**Demo Mode**

Select on/off to enable demonstration mode.

## Main Menu

### *PIN Protection*



### **Change PIN Code**

To reduce the potential for errors, Screen Setup and System Setup menu options can only be accessed after entering a PIN code. The default code is 1-2-3-4. The PIN number can be changed by using PIN Setup located in the System Setup menu.



### **Trip Reset**

Select Yes to reset all trip data.

## Setup Options

### *Selecting Screen Number and Types*



1. Select from one to four screens for signal monitoring.

Navigate to Main Menu>Screen Setup>Number of Screens.

2. Select screen type for each of the screens selected.

Navigate to Main Menu>Screen Setup>Select Screen.

Choose from three types of screen setups. Select screen type and press the far right soft key (check mark) to go to signal monitoring options.



## Setup Options

### Screen Variants



#### Screen Type 1



Type 1 is a two-up screen view with two signal capacity.



#### Screen Type 2



Type 2 is a three-up screen view with one large and two small signal display capacities.



#### Screen Type 3



Type 3 is a four-up display with four small signal display capacity.

**Setup Options***Selecting J1939 Monitor Signals*

**3.** After screen type selection, select signals to monitor. Use the up and down arrow soft keys to cycle through available signal selections.



**4.** After making a signal selection, press the right arrow (Next) soft key to go to the next selection area. Use the up, down arrow, next and select soft keys to select signal. Select the right arrow soft key to move to the next selection area.

**Setup Options***Selecting J1939 Monitor Signals*

**5.** Using the right arrow soft key will rotate through the selections in a clockwise rotation.

When finished with all screen signal selections press the exit (door symbol) soft key to return to previous menus.



**6.** Navigate back for more screen selections or press the Exit soft key 5 times to display current selections.

### J1939 Monitor Controls

The following tables list the J1939 engine and transmission parameters that are available and can be monitored in the DP2xx Graphical Terminal.

For more information on setting up monitor controls in using the Engine Information Center, please refer to *Selecting J1939 Signals* on page 29.



**J1939 Monitor Controls***Symbols**Signal monitor functions*

| Symbol  | Name/Function                      | Units              |
|---|------------------------------------|--------------------|
|  | Actual Engine Torque               | %                  |
|  | Engine Air Inlet Temperature       | Pa × 1000          |
|  | Engine Coolant Level               | %                  |
|  | Engine Coolant Pressure            | Pa × 1000          |
|  | Engine Coolant Temperature         | °C                 |
|  | Engine Exhaust Gas Temperature     | °C                 |
|  | Engine Hours                       | Hours              |
|  | Engine Intake Manifold Temperature | °C                 |
|  | Engine Oil Level                   | Max = 100, min = 0 |
|  | Engine Oil Pressure                | Pa × 1000          |
|  | Engine Oil Temperature             | °C                 |
|  | Engine RPM                         | RPM                |
|  | Engine Turbocharger Boost Pressure | Pa × 1000          |
|  | Fuel Level                         | %                  |
|  | Wheel-based Vehicle Speed          | kph/mph            |

| Symbol  | Name/Function                            | Units     |
|---|--|-----------|
|  | Accelerator Pedal Position               | %         |
|  | Alternator Current                       | Amp       |
|  | Alternator Voltage                       | Volts     |
|  | Auxiliary Temperature                    | °C        |
|  | Average Fuel Economy                     | km/l      |
|  | Trip Average Fuel Rate                   | l/h       |
|  | Barometric Pressure                      | Pa × 1000 |
|  | Current Gear                             | N/A       |
|  | Distance Remaining                       | Undefined |
|  | Engine Air Filter Differential Pressure  | Pa × 1000 |
|  | Engine Air Inlet Temperature             | °C        |
|  | Engine Injector Metering Rail 1 Pressure | MPa       |
|  | Engine Injector Metering Rail 2 Pressure | MPa       |
|  | Engine Intercooler Temperature           | °C        |
|  | Engine Turbocharger Oil Temperature      | °C        |
|  | Fan Speed                                | %         |
|  | Engine Fuel Delivery Pressure            | Pa × 1000 |
|  | Fuel Rate                                | l/h       |

| Symbol  | Name/Function                    | Units       |
|---|----------------------------------|-------------|
|  | Fuel Remaining                   | %           |
|  | Engine Fuel Temperature 1        | °C          |
|  | Instantaneous Fuel Economy       | km/l        |
|  | Internal Voltage                 | Volts       |
|  | Net Battery Current              | Amps        |
|  | Selected Gear                    | N/A         |
|  | Torque Convertor Lock-up Engaged | Conditional |
|  | Total Distance                   | Variable    |
|  | Engine Total Fuel Used           | Variable    |
|  | Transmission Input Shaft Speed   | RPM         |
|  | Transmission Oil Pressure        | Pa × 1000   |
|  | Transmission Oil Temperature     | °C          |
|  | Transmission Output Shaft Speed  | RPM         |
|  | Trip Distance                    | km          |
|  | Trip Engine Hours                | hrs         |
|  | Trip Fuel                        | l           |
| % Soot  | Soot level percent               | %           |
| % Ash   | Ash level percent                | %           |

## LED Indicators

### *Lamps*

#### **Particulate Filter Lamp**

- Stage 1 The right Amber LED indicates the initial need for regeneration.  
The lamp is on solid.
- Stage 2 The right Amber LED indicates an urgent regeneration.  
Lamp flashes with 1 Hz.
- Stage 3 Same as Stage 2 but check engine lamp will also turn on.

#### **High Exhaust System Temperature Lamp**

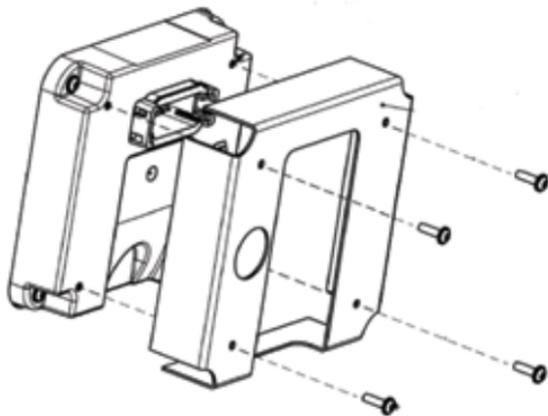
The left Amber LED indicates the increase of exhaust system temperature due to regeneration.

#### **Regeneration Disabled Lamp**

The left Amber LED indicates that the regeneration disabled switch is active.

## Installation/Mounting Instructions

### Panel Bracket Assembly



### Mounting and fastening Installation

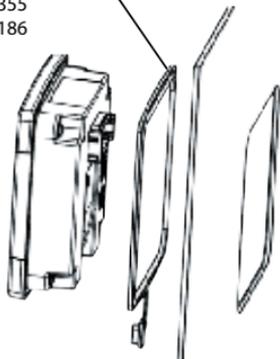
- Fastening hole depth: 11 mm
- May be threaded M3/ST3 and used with standard screws. Reassembly with self-tapping screws may damage existing threads in housing.
- Maximum torque: 0.9 Nm.

Ω Caution:  
Excessive screw  
torque force may  
cause damage to  
housing.

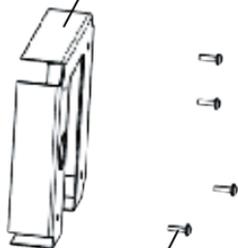
## Installation/Mounting Instructions

### Surface Mount

Panel gasket seal  
DP200 - 10107631  
DP211 - 10107355  
DP250 - 11075186



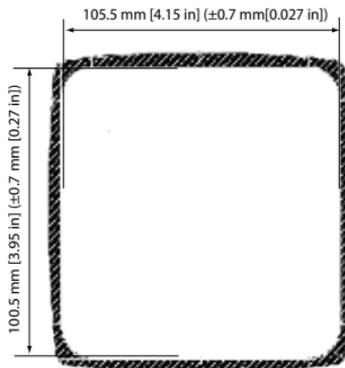
Panel mounting bracket  
DP2xx - 10105917  
DP250 - 11072811



Mounting screws  
DP2xx - M3×10 screw (×4) - 10107464  
DP250 - ST3×12 screw (×4) - 11089413

## Installation/Mounting Instructions

### *Panel Gasket Dimensions*



- Gasket seal area crosshatched
- Panel thickness: 2-5 mm
- Interior edges chamfered 0.2- 0.5 mm

**DP200 Series Model Code Variants****A** *Model Name*

|              |                                      |
|--------------|--------------------------------------|
| <b>DP200</b> | Graphical Display, IP 67 above panel |
|--------------|--------------------------------------|

**B** *Inputs/Outputs*

|           |                        |
|-----------|------------------------|
| <b>00</b> | 1 CAN port, 2 DIN/AIN  |
| <b>01</b> | 1 CAN port, 6 DIN/AIN  |
| <b>04</b> | 2 CAN ports, 2 DIN/AIN |

**C** *Real Time Clock/ Low Temperature Functionality*

|           |                  |
|-----------|------------------|
| <b>00</b> | No RTC, full LTF |
| <b>01</b> | RTC and LTF      |

**D** *Flash Memory/Application Key*

|           |                             |
|-----------|-----------------------------|
| <b>02</b> | 2MB without Application Key |
| <b>03</b> | 2MB with Application Key    |

**E** *Application Log*

|           |      |
|-----------|------|
| <b>00</b> | None |
| <b>04</b> | 4 MB |

**F** *USB Port Type*

|           |            |
|-----------|------------|
| <b>00</b> | None       |
| <b>01</b> | USB Device |

**DP211 Series Model Code Variants****A** *Model Name*

|              |  |
|--------------|--|
| <b>DP211</b> | Graphical Display with integrated USB port |
|--------------|--|

**B** *Inputs/Outputs*

|           |                              |
|-----------|------------------------------|
| <b>04</b> | 2 CAN ports, 2 multifunction |
|-----------|------------------------------|

**C** *Real Time Clock/ Low Temperature Functionality*

|           |             |
|-----------|-------------|
| <b>01</b> | RTC and LTF |
|-----------|-------------|

**D** *Flash Memory/Application Key*

|           |                             |
|-----------|-----------------------------|
| <b>02</b> | 2MB without Application Key |
|-----------|-----------------------------|

|           |                          |
|-----------|--------------------------|
| <b>03</b> | 2MB with Application Key |
|-----------|--------------------------|

**E** *Application Log*

|           |      |
|-----------|------|
| <b>04</b> | 2 MB |
|-----------|------|

**F** *USB Port Type*

|           |            |
|-----------|------------|
| <b>01</b> | USB Device |
|-----------|------------|

## DP250 Series Model Code Variants

### Model Name

|              |                         |
|--------------|-------------------------|
| <b>DP250</b> | Color Graphical Display |
|--------------|-------------------------|

### Inputs/Outputs (All models have 2 multifunction

|           |  |
|-----------|--|
| <b>00</b> | 1 CAN port   |
| <b>01</b> | 1 CAN port, 4 DIN/AIN  |
| <b>04</b> | 2 CAN ports  |
| <b>05</b> | User Configurable<br>2 CAN, 2 DIN/AIN or<br>1 CAN port, 4 DIN/AIN              |
| <b>06</b> | User Configurable:<br>1 RedCAN port, 1 CAN port or<br>1 RedCAN port, 2 DIN/AIN |

### Real Time Clock/ Low Temperature Functionality

|           |                |
|-----------|----------------|
| <b>00</b> | No RTC and LTF |
| <b>01</b> | RTC and LTF    |

### Flash Memory/Application Key

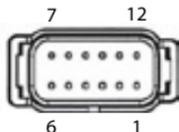
|           |                               |
|-----------|-------------------------------|
| <b>04</b> | 16 MB without Application Key |
| <b>05</b> | 16 MB with Application Key    |

### Application Log

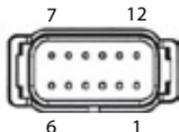
|           |       |
|-----------|-------|
| <b>00</b> | None  |
| <b>05</b> | 16 MB |

### USB Port Type

|           |                     |
|-----------|---------------------|
| <b>00</b> | None                |
| <b>01</b> | USB Device in front |
| <b>02</b> | USB Device in rear  |

**Connection/Pinout settings***DP200 Series- Deutsch Connector***DP200 Series pin assignments**

|    |                            | Code B 00 | Code B 01 | Code B 04 |
|----|----------------------------|-----------|-----------|-----------|
| 1  | Power ground-              |           |           |           |
| 2  | Power supply+              |           |           |           |
| 3  | CAN 0+                     |           |           |           |
| 4  | CAN 0-                     |           |           |           |
| 5  | AIN/ CAN Shield            |           |           |           |
| 6  | See Code B option          | N/C       | DIN/AIN   | N/C       |
| 7  | See Code B option          | N/C       | DIN/AIN   | N/C       |
| 8  | See Code B option          | N/C       | DIN/AIN   | CAN 1+    |
| 9  | See Code B option          | N/C       | DIN/AIN   | CAN 1-    |
| 10 | DIN/AIN/FREQ IN/CURRENT IN |           |           |           |
| 11 | DIN/AIN/FREQ IN/CURRENT IN |           |           |           |
| 12 | DOUT (0.5A)                |           |           |           |

**Connection/Pinout settings***DP250 Series- Deutsch Connector***DP250 Series pin assignments**

|           |                                      |
|-----------|--------------------------------------|
| <b>1</b>  | Power ground-                        |
| <b>2</b>  | Power supply+                        |
| <b>3</b>  | CAN 0+                               |
| <b>4</b>  | CAN 0-                               |
| <b>5</b>  | AIN/ CAN Shield                      |
| <b>6</b>  | See Code B option/TI                 |
| <b>7</b>  | See Code B option/TI                 |
| <b>8</b>  | See Code B option/TI                 |
| <b>9</b>  | See Code B option/TI                 |
| <b>10</b> | DIN/AIN/FREQ IN/CURRENT IN, RHEOSTAT |
| <b>11</b> | DIN/AIN/FREQ IN/CURRENT IN, RHEOSTAT |
| <b>12</b> | DOUT (0.5A)                          |

## Connection/Pinout settings

### Related Parts & Kits

#### DP200 Series Related Products Part Numbers

|                 |   |
|-----------------|---|
| <b>10100944</b> | Deutsch Mating Connector Bag Assembly (20-24 AWG) |
| <b>10102025</b> | Deutsch Mating Connector Bag Assembly (16-20 AWG) |

#### Electrical Connection Kits

|                 |   |
|-----------------|---|
| <b>10100944</b> | 12-pin Deutsch connection Kit   |
|                 | <i>Contents:</i><br>10100738 DTM06-12SA 12-pin Deutsch connector<br>10100743 Deutsch terminal<br>10100741 WM 12S locking plug |

#### Connection Tools

|                 |   |
|-----------------|---|
| <b>10100744</b> | Deutsch stamped contacts terminal crimp tool, size 20 |
| <b>10100745</b> | Deutsch solid contacts terminal crimp tool            |

**Connection/Pinout settings***Related Parts & Kits (Continued)***DP200 Mounting Kit****10107354**

DP200 Series Mounting Hardware Kit

*Contents:**10107464 Mounting screws (×4), M3 × 10**10107631 Panel gasket seal**10105917 Panel mounting bracket***DP211 Mounting Kit****10107264**

DP211 Series Mounting Hardware Kit

*Contents:**10107464 Mounting screws (×4), M3 × 10**10107355 Panel gasket seal**10105917 Panel mounting bracket***DP250 Mounting Kit****11079236**

DP250 Series Mounting Hardware Kit

*Contents:**11089413 Mounting screws (×4), ST3 × 12**11075786 Panel gasket seal**11072811 Panel mounting bracket*

**Connection/Pinout settings**

*Related Parts & Kits (Continued)*

**Software**

**10101000**

PLUS+1 GUIDE Software Application ( including Service Tool and Screen Editor)

## Ω Important Safety Information

- Disconnect your machine's battery power before connecting power and signal cables to the DP2xx.
- Before doing any electrical welding on your machine, disconnect all power and signal cable cables connected to the DP2xx.
- Do not exceed the DP2xx power supply voltage ratings. Using higher voltages may damage the DP2xx and can create a fire or electrical shock hazard.
- Do not use or store the DP2xx where flammable gases or chemicals are present.
- Using or storing the DP2xx where flammable gases or chemicals are present may cause an explosion.
- Software configures the keypad buttons on the DP2xx. Do not use these buttons to implement critical safety features. Use separate mechanical switches to implement critical safety features such as emergency stops.
- Design systems that use the DP2xx so that a communication error or failure between the DP2xx and other units cannot cause a malfunction that might injure people or damage material.
- The protective glass over the DP2xx display screen will break if hit with a hard or heavy object. Install the DP2xx to reduce the possibility of it being hit by hard or heavy objects.
- If you break the protective glass of the DP2xx screen, remove the DP2xx and immediately return it to Danfoss for service.
- Storing or operating a DP2xx in an environment that exceeds the DP2xx specified temperature or humidity rating may damage the DP2xx.
- Always clean the DP2xx with a soft, damp cloth. Use a mild dishwashing detergent as needed.
- The DP2xx is not user serviceable. Return the DP2xx to the factory in case of failure.

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- Proportional Valves
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- Transit Mixer Drives

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