

Data Sheet

PLUS+1[®] Mobile Machine Displays DP250 Series

Durable color display

Danfoss DP250 Series Displays are elements of the PLUS+1[®] family of mobile machine management products.

The DP250 series provide mobile machine OEMs with a range of rugged, high quality, cost effective color displays.

DP250 Series variants include several Input options, dual CAN port options and two USB options: a USB device mini-connector on the front of the display or a USB connector on the rear of the display.

Large function-programmable buttons provide tactile feedback. The high resolution color display is viewable in a wide range of lighting conditions. Backlight and contrast settings are programmable.

The DP250 display family features robust mechanical, electrical and environmental specifications that meet the harsh operating conditions found in mobile machine applications.

Features

- User-programmable with PLUS+1[®] GUIDE (Graphical User Integrated Development Environment)
- J1939 engine monitor (Engine Information Center) application software available (application keyed)
- High resolution color TFT display (240x320 pixels, 15-bit color)
- 6 software controlled LEDs (2 red, 2 amber, 2 green)
- 4 user-programmable soft keys
- 2 CAN 2.0 ports option
- 4 digital analog inputs options
- All models include 2 multifunction inputs (DIN/AIN/FrequencyIN/ CurrentIN, 4–20 mA)
- 1 fixed-range analog input/CAN shield pin

- 16 MB program memory
- 16 MB application log memory option
- Real-time clock
- Buzzer output
- Two USB options:
 - Mini USB connector (USB device function) on the front of the display
 - Binder USB connector (USB function) on the back of the display
- IP 67 ingress rating
 - Exception: IP 54 rating for DP250 display with front mini-USB connector
- -30°C to 70°C (-22°F to 158°F) operating temperature range
- CE marked

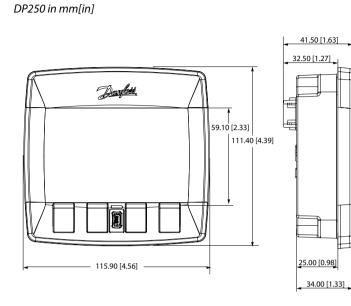
Comprehensive technical literature online at *powersolutions.danfoss.com*



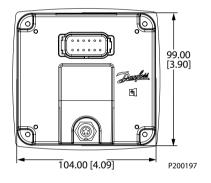
ENGINEERING



Dimensions



Mounting panel cutout in mm[in]



Specifications



P200 129

USB mini-B connector pin out information

| 1 | Vbus | |
|---|----------------|--|
| 2 | Data - | |
| 3 | Data + | |
| 4 | Device ID (NC) | |
| 5 | Ground | |

The DP250 front mini-USB model option carries an IP54 ingress rating. The USB cover/ plug must be in place for full IP54 protection. This model variant is recommended for in-cab installation only.

For full IP67 ingress rating of rear USB models, the cable or plug must be in place.

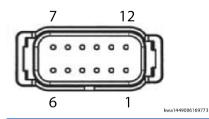


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Binder Series 702 USB connector pin out information

| 1 | Vbus |
|---|--------|
| 2 | Data - |
| 3 | Data + |
| 4 | N/C |
| 5 | Ground |
| 6 | N/C |
| 7 | N/C |
| 8 | N/C |





Use care when wiring mating connector. Diagrams show device pins.

DEUTSCH 12-pin connector pin out information

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

Model features and Ordering information

| Α | В | c | D | E | F | Part number |
|-------|----|----|----|----|----|-----------------------|
| DP250 | 00 | 00 | 04 | 00 | 00 | 11080686 |
| | 00 | 01 | 05 | 00 | 00 | 11075899 ¹ |
| | 01 | 01 | 04 | 05 | 00 | 11075900 |
| | 01 | 01 | 05 | 05 | 00 | 11077442 ² |
| | 05 | 01 | 04 | 05 | 00 | 11060814 |
| | 05 | 01 | 05 | 05 | 00 | 11077443 ² |
| | 06 | 01 | 04 | 05 | 01 | 11060816 |
| | 06 | 01 | 05 | 05 | 01 | 11077444 ² |
| | 01 | 01 | 05 | 05 | 02 | 11094414 ² |
| | 01 | 01 | 04 | 05 | 02 | 11091448 |

¹ EIC installed

² With app key which allows EIC SW installation

Accessory information

| Model | Part number |
|---|-------------|
| DP2XX Panel Mounting Kit | 11079236 |
| DEUTSCH 12-pin Connector Kit (DTM06-12SA) | 10100944 |
| Binder Connector and Cable Kit (Series 702) | 10103497 |

A: Model name

B: Inputs/Outputs (All models have 2 multifunction)

| 00 | 1 CAN port | | |
|----|--|--|--|
| 01 | 1 CAN port, 4 DIN/AIN | | |
| 05 | User Configurable: 2 CAN, 2 DIN/AIN or 1 CAN, 4 DIN/AIN | | |
| 06 | User Configurable: 1 RedCAN port, 1 CAN port or 1 RedCAN port, 2 DIN/AIN | | |

C: Real Time Clock, low temperature functionality

| 00 | No RTC and LTF | |
|----|----------------|--|
| 01 | RTC and LTF | |

D: Flash Memory/Application Key

| 04 | 16MB without Application Key | |
|----|------------------------------|--|
| 05 | 16MB with Application Key | |

E: Application log

| 00 | None |
|----|------|
| 05 | 16MB |

F: USB port type

| 00 | None | |
|----|---------------------|--|
| 01 | USB Device in front | |
| 02 | USB Device in rear | |





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