



Data Sheet

# PLUS+1® Mobile Machine Displays DP200 Series



Danfoss DP200 Series are elements of the PLUS+1 family of mobile machine management products.

The DP200 series provide high quality, cost effective performance solutions to fit the needs of today's mobile machines.

The DP200 series feature robust mechanical, electrical and ingress protection specifications that meet the demands of mobile machine operation.

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

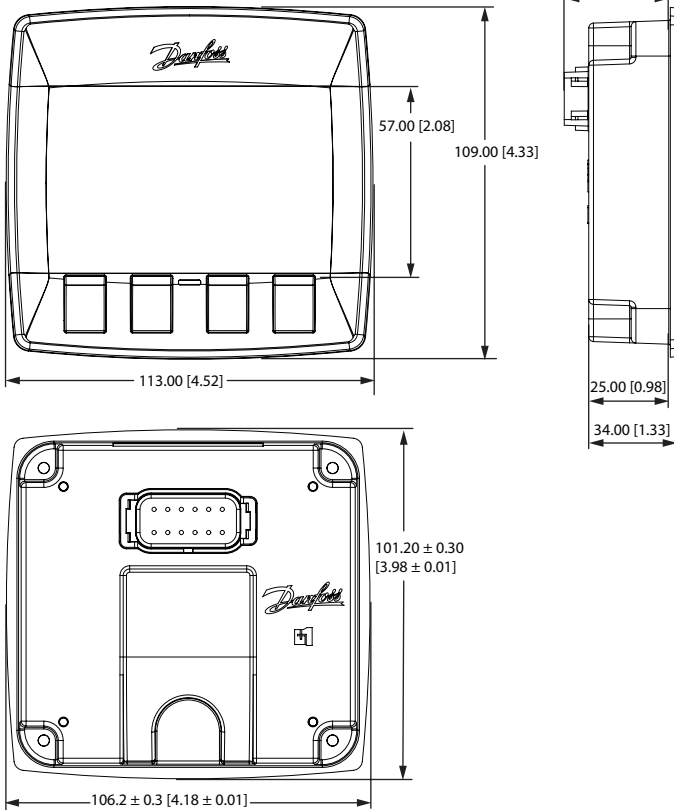
Modern industrial design makes the DP200 series suitable for installation in open and enclosed cabs.

**Features  
(Model dependent)**

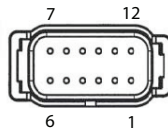
- 3.8" high resolution grayscale LCD display
- 4 programmable soft keys
- 2 red, 2 green, 2 amber software controlled LEDs
- 2 CAN 2.0B ports
- 1 fixed-range analog input
- 4 digital/analog inputs
- 2 digital/analog/frequency/current/rheostat inputs
- 1 (0.5A) digital output
- Real time clock
- PLUS+1® GUIDE programmable
- J1939 engine monitor software package (requires application key)
- Rugged IP 67 rated housing
- Integrated Deutsch™ connector
- Extended temperature performance range
- CE and E marked
- Mounting hardware and panel seal gasket included

**Dimensions**

mm [in]



**Pin assignments**



Use care when wiring mating connector. Diagram shows device pins.

*Deutsch™ 12-pin connector*

| Pin | Function                   | 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          | NC        | DIN/AIN   | NC        |
| 7   | See Code B option          | NC        | DIN/AIN   | NC        |
| 8   | See Code B option          | NC        | DIN/AIN   | CAN 1+    |
| 9   | See Code B option          | NC        | DIN/AIN   | CAN 1-    |
| 10  | DIN/AIN/FREQ IN/CURRENT IN |           |           |           |
| 11  | DIN/AIN/FREQ IN/CURRENT IN |           |           |           |
| 12  | DOUT (0.5A)                |           |           |           |

**Model features**

|       | A | B  | C  | D  | E  | F  | Part number |
|-------|---|----|----|----|----|----|-------------|
| DP200 |   | 00 | 00 | 02 | 00 | 00 | 10107021    |
|       |   | 00 | 01 | 03 | 00 | 00 | 10107380    |
|       |   | 01 | 01 | 02 | 00 | 00 | 10106883    |
|       |   | 01 | 01 | 03 | 00 | 00 | 10107381    |
|       |   | 04 | 01 | 02 | 00 | 00 | 10107022    |
|       |   | 04 | 01 | 03 | 00 | 00 | 10107382    |

**Specifications**

|                              |   |
|------------------------------|---|
| <b>Processor</b>             | ARM 7 core, 32 bit, 60 MHz  |
| <b>RAM</b>                   | 64 KB on-chip, 512 KB on board  |
| <b>FRAM</b>                  | 16 KB   |
| <b>Supply voltage</b>        | 9 to 63 Vdc/6.5 Watts   |
| <b>Connector</b>             | Deutsch™ DTM-12   |
| <b>Type</b>                  | LCD with 32 grayscale levels  |
| <b>Resolution</b>            | 240 x 160 pixels  |
| <b>Viewable area</b>         | 80 mm x 55 mm [3.15 x 2.16]   |
| <b>IP Rating</b>             | IP67 above panel  |
| <b>Operation temperature</b> | Code C00: -20° C to +70° C [-4° F to +158° F]<br>Code C01: -40° C to +70° C [-40° F to +158° F] |
| <b>Storage temperature</b>   | -40° C to +85° C [-40° F to +176° F]  |
| <b>Weight</b>                | 250 g [0.5 lb]  |
| <b>Vibration/shock</b>       | 3 g/ 50 g   |
| <b>EMC/ESD</b>               | 100 V/m / 15 kV   |
| <b>Digital output (0.5A)</b> | 1   |

| Related Product                                   | Part Number |          |
|---|-------------|----------|
| Deutsch Mating Connector Bag Assembly (16-20 AWG) | 10102025    |          |
| Deutsch Mating Connector Bag Assembly (20-34 AWG) | 10100944    |          |
| DP200 Mounting Hardware Kit                       | 10107354    |          |
| PLUS+1 GUIDE Single User License                  | 10101000    |          |
| DP200 Panel Seal Replacement Gasket               | Black       | 10107631 |
|   | Red         | 10107630 |

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