

Data Sheet

# PLUS+1<sup>®</sup> Mobile Machine Displays

## DP200 Series



Danfoss DP200 Series Displays are elements of the PLUS+1<sup>®</sup> 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.

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.

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

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<sup>®</sup> 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

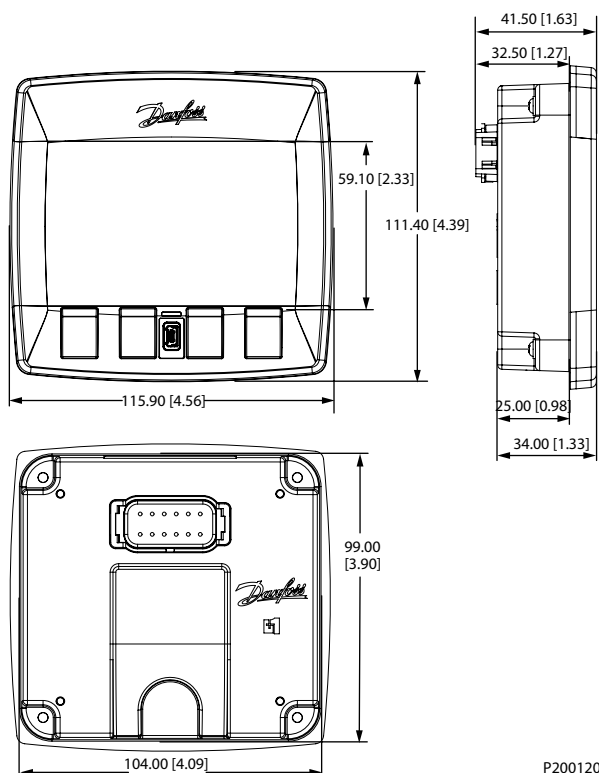
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Comprehensive technical literature online  
at [powersolutions.danfoss.com](http://powersolutions.danfoss.com)

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**Dimensions**

mm [in]

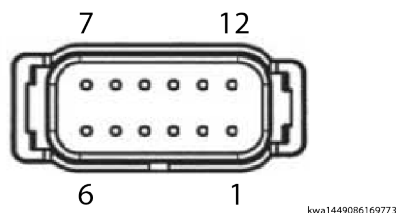


P200120

**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>	IP 67 above panel
<b>Operation temperature</b>	Code C00: -20° C to +70° C [-4° F to +158° F] 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

**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

A: Model name

<b>DP200</b>	PLUS+1 <sup>®</sup> Mobile Machine Displays
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B: Input/ output options

<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*

<b>00</b>	No RTC, No LTF
<b>01</b>	RTC and LTF

*D: Flash memory/application key*

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

*E: Application log (vault memory)*

<b>00</b>	None
<b>01</b>	4MB

*F: USB port type*

<b>00</b>	None
<b>01</b>	USB device

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 <sup>®</sup> GUIDE Single User License		10101000
DP200 Panel Seal Replacement Gasket	Black	10107631
	Red	10107630

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