

Data Sheet

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

## DP610TM Series



The Danfoss DP610TM Series is an element of the PLUS+1<sup>®</sup> family of mobile machine management products.

The DP610TM design provides mobile machine OEMs with a rugged, high performing color display, both in-cab and open usage.

These transmissive, thin film transistor (TFT), high resolution color displays fit your budget without losing performance quality.

The DP610TM features include robust mechanical, electrical and environmental specifications that meet the harsh operating conditions found in mobile machine applications.



### Features

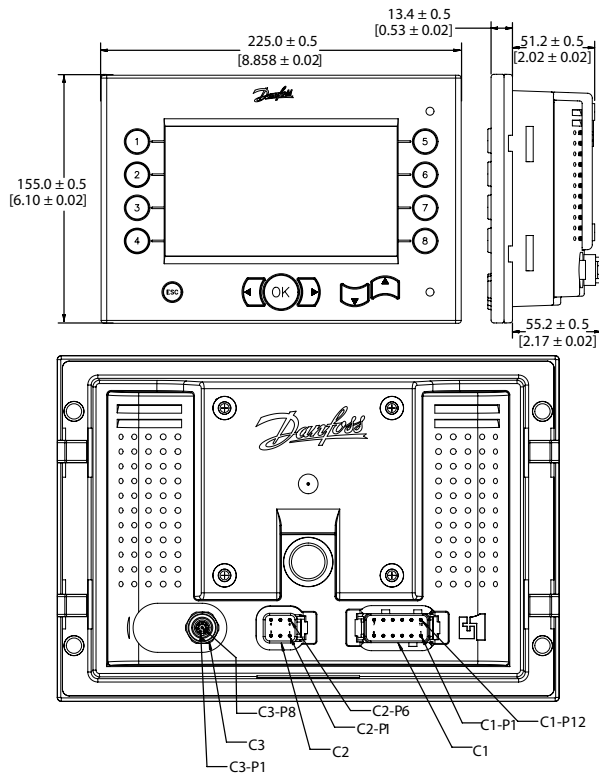
- User-programmable with PLUS+1<sup>®</sup> GUIDE (Graphical User Integrated Development Environment)
- High resolution TFT display 400 x 240 pixels, 18-bit color
- LCD brightness 850 cd/m<sup>2</sup>
- LCD contrast 800:1
- Protective glass integrated into keypad provides superior antiglare and contrast control under all light conditions
- Two mounting options:
  - Flush mount in dashboard
  - Stand alone post mount according to VESA standard 75 mm x 75 mm [2.953 in x 2.953 in]
- Fully integrated connectors and silicone keypad provide water and dust protection from all sides
- Wide storage and operating temperature range
- GORE-TEX<sup>®</sup> membrane prevents moisture ingress and screen fogging
- Keypad with 14 buttons (8 soft-keys + 6 buttons for navigation)
- All buttons have green backlight design for low light and night use
- Ultra-bright red alarm LED
- On board real-time clock
- USB port for fast software downloads and uploads
- Integrated light sensor for automatic backlight adjustment
- Inputs for external menu navigation button give the driver full control while driving
- Digital output for external ALARM buzzer
- 16 MB application log memory
- CE compliant

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

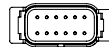
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**DP610TM Series**
**Dimensions**

mm [in]


**Specifications**

<b>Processor</b>	ARM 11, 532 MHZ
<b>RAM</b>	128 MB
<b>FRAM</b>	8 KB
<b>Supply voltage</b>	9 to 70 Vdc
<b>Current consumption</b>	1 AMP @ 14V, 0.5 AMP @ 28V
<b>LCD glass</b>	TFT with 18 bit resolution
<b>Viewable area</b>	155.00 mm x 89.20 mm (6.102 in x 3.512 in)
<b>IP rating</b>	IP 67
<b>Operating temperature</b>	-30° C to 70° C (-22° F to 158° F)
<b>Storage temperature</b>	-40° C to 85° C (-40° F to 185° F)
<b>Weight</b>	1100g
<b>Vibration; Shock</b>	3.17g; 50g
<b>EMC; ESD</b>	100V/m; 15kV

**DEUTSCH DTMO6 12 Pin**


C1 Pin	Function
C1-P1	Power ground -
C1-P2	Power supply +
C1-P3	CAN1 High +
C1-P4	CAN1 Low -
C1-P5	AIN/CAN shield
C1-P6	CAN0 High +
C1-P7	CAN0 Low -
C1-P8	Sensor supply
C1-P9	Multifunction-input
C1-P10	Multifunction-input
C1-P11	Analog/Digital input
C1-P12	Digital output

**DEUTSCH DTMO6 6 Pin**


C2 Pin	Function
C2-P1	Battery ground
C2-P2	Redundant power supply
C2-P3	Redundant CAN0 High +
C2-P4	Redundant CAN0 Low -
C2-P5	CAN shield/AIN
C2-P6	Digital/AIN

**Binder 702 Series USB 8 Pin**


C3 Pin	Function
C3-P1	USB device Vbus
C3-P2	USB device data -
C3-P3	USB device data +
C3-P4	USB device ground
C3-P5	USB host ground/ RS232
C3-P6	USB host data +/- RS232 Rx/D
C3-P7	USB host data - /RS232 Tx/D
C3-P8	USB host Vbus

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**DP610TM Series**


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**Model Features**

A	B	C	D	E	F	G	Part number
DP610TM	10	02	06	02	04	05	11153502
	10	02	06	02	04	06	11153515

*A: Model Name*

<b>DP610TM</b>	PLUS+1 <sup>®</sup> Mobile Machine Displays
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*B: Input/ Output Options*

<b>10</b>	2 CAN, 2 DIN/AIN/Freqin/Rheo/4-20mA In, 2 AIN/CAN Shield
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*C: Real Time Clock/ Low Temperature Functionality*

<b>02</b>	RTC
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*D: Flash Memory/ Application Key*

<b>06</b>	512 MB/without application key
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*E: Application Log (Vault Memory)*

<b>02</b>	16 MB
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*F: USB Port Type*

<b>04</b>	USB device, host/RS232 in rear
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*G: Screen Size/Feature*

<b>05</b>	400 x 240 color transmissive
<b>06</b>	400 x 240 color transmissive with anti-fog coating

Related Product	Part Number
Panel mounting spring clip	10101363
DEUTSCH 12 pin mating connector kit 20 to 24 AWG	10100944
DEUTSCH 12 pin mating connector kit 16 to 20 AWG	10102025
Mating connector kit	11109743
USB cable (device only)	10103497
USB cable (device and host)	11109121



**Niehues**

Hydraulik · Automation

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TOMORROW



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