

**Data Sheet** 

# DP700 Series PLUS+1<sup>®</sup> Mobile Machine Displays



### Features

- 7" High resolution TFT display 800 x 480 pixels, 18-bit colour
- Ideal for gauges, diagnostic menus and other ancillary functions
- User-programmable with PLUS+1 GUIDE (Graphical User Integrated Development Environment)
- Optically bonded LCD
- Two multifunction inputs that include DIN/ AIN/FreqIN/Rheo/4-20 mA
- Fully integrated connectors and silicone keypad provide water and dust protection from all sides
- Keypad with 14 buttons (8 soft-keys and 6 buttons for navigation)
- All buttons have white backlight design for low light and night use, all are individually software controlled
- Protective glass provides superior antiglare and contrast control under all light conditions

# Introduction

The Danfoss DP700 Series is an element of the PLUS+1° family of mobile machine management products.

The DP700 is designed to perform in the most extreme mobile machine environments.

The DP700 offers three different display options to meet your application needs for both in-cab and open usage.

The latest technology with backlight provides outstanding brightness and contrast performance resulting in an easy-to-read screen. Optically Bonded LCD/Lens Technology improves sunlight viewability and prevents fogging.

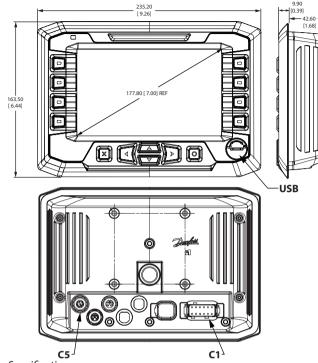
Develop your own software and layout with PLUS+1 GUIDE. A graphic library is available for fast time-to-market.

- 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)
- Can be mounted in Portrait or Landscape orientation
- Software configurable LED light bar
- USB port for fast software downloads and uploads
- Integrated light sensor for automatic backlight adjustment
- LCD luminance 400-550cd/m<sup>2</sup>
- Digital output for external alarm buzzer
- CE compliant
- On board real-time clock



## **Dimensions and Pin Assignments**

mm [in]



Deutsch® DTMO6 12 Pin

M12 8 Pin



C1 pin	Function	C5 pin	Function			
C1-P1	Power ground -	C5-P1	USB device Vbus			
C1-P2	Power supply +	C5-P2	USB device data D-			
C1-P3	CAN0 High +	C5-P3	USB device data D+			
C1-P4	CAN0 Low -	C5-P4	USB device GND			
C1-P5	CAN shield/AIN	C5-P5	USB host GND/RS232 GND			
C1-P6	CAN1 High + (AIN/DIN)	C5-P6	USB host D+/RS232 RxD			
C1-P7	CAN1 Low - (AIN/DIN)	C5-P7	USB host D-/RS232 TxD			
C1-P8	Sensor power (AIN/DIN)	C5-P8	USB host Vbus			
C1-P9	Sensor ground					
C1-P10	Multifunction-input					
C1-P11	Multifunction-input					
C1-P12	DOUT					

### Model Features

Spe	cific	atic	nns

Processor	ARM11, 532 MHz
RAM	128 MB
FRAM	8 kB
Supply voltage/ Current consumption	9 to 36 Vdc/1 amp at 14 V, 0.5 amp at 28 V
LCD glass	TFT with 18 bit resolution
Viewable area	152.40 mm x 91.40 mm (6.00 in x 3.598 in)
Ingress Protection (IP) rating (with sealing plugs in unused connections)	IP 67
Operating temperature	-30° C to +60° C (-22° F to +140° F)
Storage temperature	-30° C to +80° C (-22° F to +176° F)
Weight	1000 g (2.2 lb)
Vibration	3.17 g
Shock	50 g
Electromagnetic Compatibility (EMC)	100 V/m
Electrostatic Discharge (ESD)	15 kV

Related products	Part number
Panel mounting kit	11144800
Deutsch 12 pin mating connector kit 20 to 24 AWG	10100944
Deutsch 12 pin mating connector kit 16 to 20 AWG	10102025
USB cable (device only)	11130518
USB cable (device and host)	11130519

#### Danfoss

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Α	В	С	D	E	F	G	Part number
DP700	01	01	01	02	04	01	11126309
DP700	02	01	01	02	04	01	11126310
DP700	03	01	01	02	04	01	11126311

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[	Α	Model Name								
		[	DP700	Pl	PLUS+1 Mobile Machine Displays					
[	В	LCD	Optio	ons						
		01	Value	—Tran	smissiv	re				
		02	Stand	lard—T	ransmi	ssive				
		03 High performance— Transmissive-Enhanced View TFT								
[	С	Tou	Touch Screen Options							
		01 None								
[	D	Inpl	Input/ Output Options							
		01 User configurable 1 CAN, 2 AIN/DIN, 2 DIN/AIN/FreqIn/Rheo/4-20 mA IN, DOUT 2 CAN, 2 DIN/AIN/FreqIn/Rheo/4-20 mA IN, DOUT								
[	E	Flas	Flash Memory/ Application Key							
		<b>02</b> 512 MB/without application key								
[	F	USB Port Type								
		04 USB device rear/USB host rear or front								
[	G	App	olicatio	on Log	(Vault	Мето	ry)			
		01 16 MB								

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