

Data Sheet

DP700 SeriesPLUS+1® Mobile Machine Displays

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 different display options to meet your application needs.

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 view-ability and prevents fogging.

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





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
- 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 brightness >800/m²
- Digital output for external alarm buzzer
- CE compliant
- · On board real-time clock

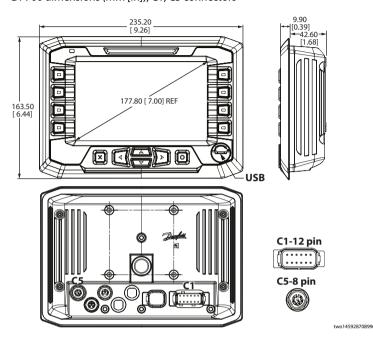
Comprehensive technical literature is online at www.danfoss.com

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Taken from the DP700 warehouse

DP700 dimensions (mm [in]); C1, C5 connectors



Pin assignments

C1—DEUTSCH DTMO6 12 pin

| Pin | Function | Pins | Function |
|---------------|-----------------------|--------|------------------------|
| C1 -P1 | Power GND - | C1-P7 | CAN1 Low - (AIN/DIN) |
| C1-P2 | Power supply + | C1-P8 | Sensor power (AIN/DIN) |
| C1-P3 | CAN0 High + | C1-P9 | Sensor GND |
| C1-P4 | CAN0 Low - | C1-P10 | Multifunction-input |
| C1-P5 | CAN shield/AIN | C1-P11 | Multifunction-input |
| C1-P6 | CAN1 High + (AIN/DIN) | C1-P12 | DOUT |

C5—M128 pin

| Pin | Function | Pins | Function |
|---------------|-----------------------------|-------|---------------------------|
| C5 -P1 | USB device V _{BUS} | C5-P5 | USB host GND/RS232 GND |
| C5-P2 | USB device data D- | C5-P6 | USB host D+/RS232 RxD |
| C5-P3 | USB device data D+ | C5-P7 | USB host D-/RS232 TxD |
| C5-P4 | USB device GND | C5-P8 | USB host V _{BUS} |

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Specifications

| Processor | ARM11, 532 MHz |
|--------------------------------------|--|
| RAM | 128 MB |
| FRAM | 8 kB |
| Supply voltage / current consumption | 9 to 36 V _{DC} / 1 amp at 14 V, 0.5 amp at 28 V |
| LCD glass | Transmissive In-Plane Switching (IPS) |
| Viewable area | 152.40 mm x 91.40 mm [6.00 in x 3.598 in] |
| IP rating | 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 |
| EMC | 100 V/m |
| ESD | 15 kV |

Ordering information

Model features and product part numbers

| A | В | c | D | E | F | G | Part number |
|-------|----|----|----|----|----|----|-------------|
| DP700 | 04 | 01 | 01 | 02 | 04 | 01 | 11264179 |

| Mode | odel features Code Description | | | | |
|------|--------------------------------|-------|--|--|--|
| Α | Model name | DP700 | PLUS+1® Mobile Machine Displays | | |
| В | LCD options | 04 | Transmissive In-Plane Switching(IPS) | | |
| С | Touchscreen options | 01 | None | | |
| D | 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 | Flash memory / application key | 02 | 512 MB/without application key | | |
| F | USB port type | 04 | USB device rear/USB host rear or front | | |
| G | Application log (vault memory) | 01 | 16 MB | | |

| Related product | Part number |
|--|-------------|
| Panel mounting kit | 11144800 |
| DEUTSCH 12 pin mating connector kit 20 AWG | 10100944 |
| DEUTSCH 12 pin mating connector kit 16 to 22 AWG | 10102025 |
| USB cable (with camera cable) | 11130518 |
| USB cable (device and host) | 11130519 |

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