

Data Sheet

PLUS+1[®] Mobile Machine Displays

DM700 Series



Revision history

Table of revisions

| Date | Changed | Rev |
|-------------|----------------------------------|------------|
| July 2022 | Corrected a part number | 0204 |
| July 2022 | Corrected features section | 0203 |
| June 2022 | Updated technical specifications | 0202 |
| May 2022 | Updated specifications | 0201 |
| July 2020 | First edition | 0101 |

DM700 description

Expanding the PLUS+1® family, the Danfoss DM700 display series bring modern appearance and performance to mobile machine markets.

The DM700 series delivers outstanding operator visibility with its high brightness, wide viewing angles, optical bonding, anti-glare, anti-reflection and oleophobic coating.

The DM700 is built to withstand harsh operating environments with its IP66 and IP67 rating and the water-resistant screen, allowing for multi-touch while wearing gloves.

The integrated file viewer and media player provides view of documents and media files.

DM700 features

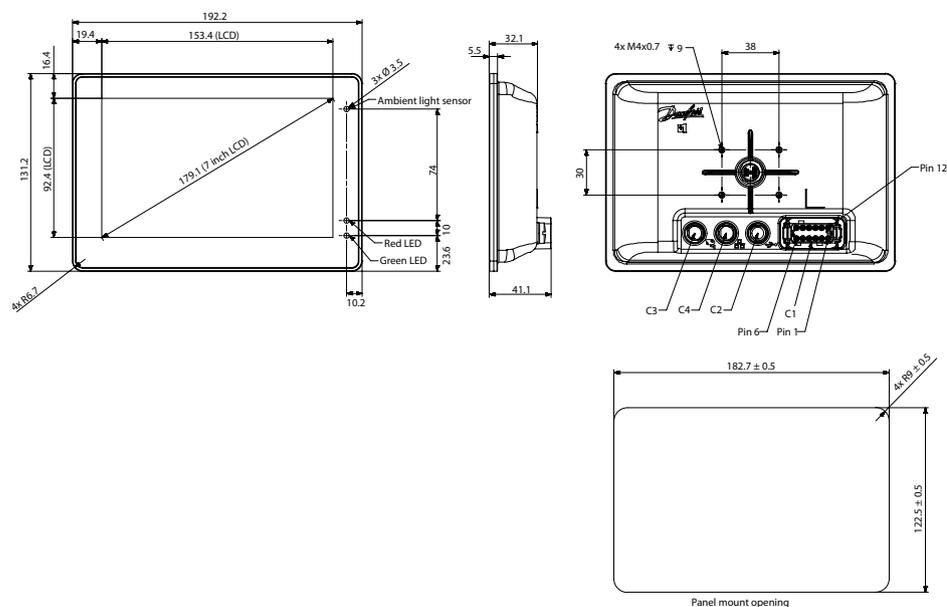
- Basic Features Version
 - Outstanding Sunlight visibility
 - IPS LCD Technology with optical bonding
 - Media Player, PDF Viewer and File Browser
 - USB 2.0 High-Speed Device/Host (shared)
 - PLUS+1® GUIDE programmable
 - Landscape and portrait orientation
 - Integrated ambient light sensor
 - Ignition input
 - 2 CAN ports
 - Fast Start-up Time (~5 sec)
 - RAM® or Dashboard Mount
 - Touch Screen (optional)
- Video Features (optional)
 - Double Camera Input
- Advanced Features Version (optional)
 - 32 MB App Log
 - Ethernet
- CE Compliant, E-Mark* and RoHS Compliant

*Pending

Comprehensive technical literature is online at <http://www.danfoss.com>

DM700 detailed description

Dimensions



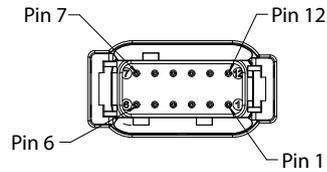
Technical specifications

| | |
|------------------------------|---------------------------------------|
| Processor | i.MX6 DualLite |
| RAM | 512MB |
| Flash | 4GB |
| FRAM | 16KB |
| Supply Voltage | 9-36 Vdc |
| Size | 7" |
| Aspect Ratio | 5:3 Wide View |
| Resolution | 800x480, IPS |
| Brightness | 800 cd/m ² |
| Contrast Ratio | 600:1 |
| Viewing Angle | ±90° Vertical and Horizontal |
| Color Depth | 24 bit |
| IP Rating | IP66 an IP67 front and back |
| Operating Temperature | -30 C to +70C [-22F to 158F] |
| Storage Temperature | -40 C to +85C [-40F to 158F] |
| Vibration/Shock | IEC 60068-2-64 (3.17gRMS) /2-27 (50g) |
| EMI/RFI Rating (V/m) | 100 |
| Humidity | IEC 60068-2-78, 60068-2-30 |
| Transients | ISO 7637/1, 2, 3 |
| Real Time Clock (RTC) | 30 days |
| Weight | 0.8Kg |

DM700 detailed description

Connector

C1 – DEUTSCH DTM06-12SA 12-pin connector



| C1 pin | Function |
|--------|---|
| 1 | Power ground - |
| 2 | Power supply + |
| 3 | CAN 0+ |
| 4 | CAN 0- |
| 5 | Digital Analog Input |
| 6 | CAN 1+ |
| 7 | CAN 1- |
| 8 | Sensor Supply Out (+5 V) |
| 9 | K15 Ignition Input (Digital Input) |
| 10 | Multifunction input (Digin/Anin/Freq/4-20mA/Rheostat) |
| 11 | Multifunction input (Digin/Anin/Freq/4-20mA/Rheostat) |
| 12 | Digital out (0.5A sinking) |

DM700 connector

C2 – M12 8Pin, Female, USB On-The-Go (Device/Host) "A" Key



| Pin | Function |
|------|--|
| C2p1 | Device/Host Data + |
| C2p2 | Device/Host Data - |
| C2p3 | Device/Host Vbus |
| C2p4 | Device Id |
| C2p5 | Ground |
| C2p6 | Manufacturing Use Only(leave floating) |
| C2p7 | Ground |
| C2p8 | Ground |

C3--M12 5 Pin, Video, Female "A" Key (Optional)



| Pin | Function |
|-----|----------------|
| 1 | Power Ground |
| 2 | Power Supply |
| 3 | Signal Input 0 |
| 4 | Signal Ground |
| 5 | Signal Input 1 |

C4 – M12 4 Pin, Ethernet, Female "D" Key (Optional)



| Pin | Function |
|-----|----------|
| 1 | TxD+ |
| 2 | RxD+ |
| 3 | TxD- |
| 4 | RxD- |

Model variants

| Part Number | Order Code | Description |
|-------------|------------------------|----------------------------------|
| 11277810 | DM07N-NN-2NB-ND-A-N-NN | 7" Display Basic |
| 11277811 | DM07N-TN-2NB-ND-A-N-NN | 7" Display Basic + Touch |
| 11277883 | DM07N-NN-2NB-2D-A-N-NN | 7" Display Basic + Video |
| 11301837 | DM07N-TN-2NB-2D-A-N-NN | 7" Display Basic + Video + Touch |
| 11277885 | DM07N-NN-2EB-2D-A-N-NN | 7" Display Advanced |
| 11277886 | DM07N-TN-2EB-2D-A-N-NN | 7" Display Advanced + Touch |

DM700 connector

Related products part numbers

| Connector Kit | |
|----------------------|--|
| 10100944 | DEUTSCH 12-pin Connector kit(DTM06-12SA) |

| Panel Mounting Kits | |
|----------------------------|---|
| * | * |

| Cable Kits | |
|-------------------|---------------------------------------|
| 11277305 | Cable, M12 4-Pin to USB Device A code |
| * | |
| * | |

| Software | |
|--|--|
| 11179523 (Annual renewal with 11179524 to keep the software updates) | PLUS+1® GUIDE Professional Software (includes 1 year of software updates, a single user license, Service and Diagnostic Tool and Screen Editor) |

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