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.

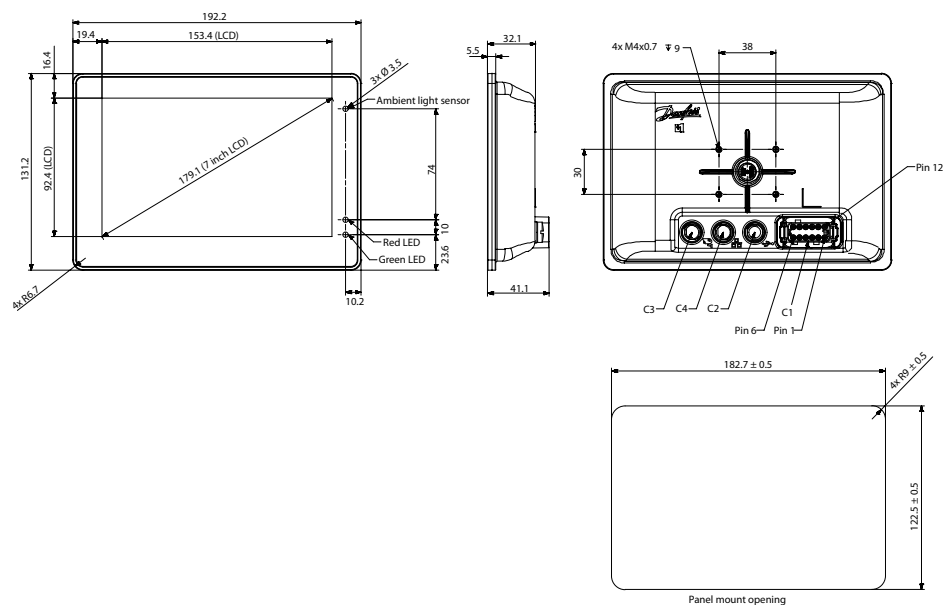## DM700 features

- 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
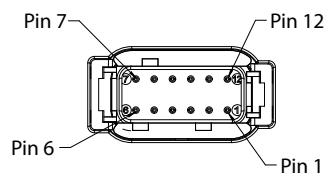
    Comprehensive technical literature is online at *http://www.danfoss.com*

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/m2
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

Pin 7 — — Pin 12

Pin 6 —

— Pin 1

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
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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)

Local address: