

Data Sheet

PLUS+1[®] Mobile Machine Displays

DM1x00 Series



The Danfoss DM1x00 display series bring modern appearance and performance to mobile machine markets with two display platforms, expanding the PLUS+1[®] family.

The DM1x00 series was developed for best operator viewability with its high brightness, optical bonding, anti-glare, anti-reflection, oleophobic coating and wide viewing angles. It is equipped with an outstanding dual core 800 MHz i.MX6 processor and 4GB flash memory delivering high performance. Ruggedized for mobile machine markets, it 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 on the run using the audio line out to connect to the vehicle speaker system.

To meet specific needs, the DM1x00 includes two different screen sizes (10.1" and 12.1") with optional multi-touch and two button pad configurations with programmable back-lights and tactile feedback.

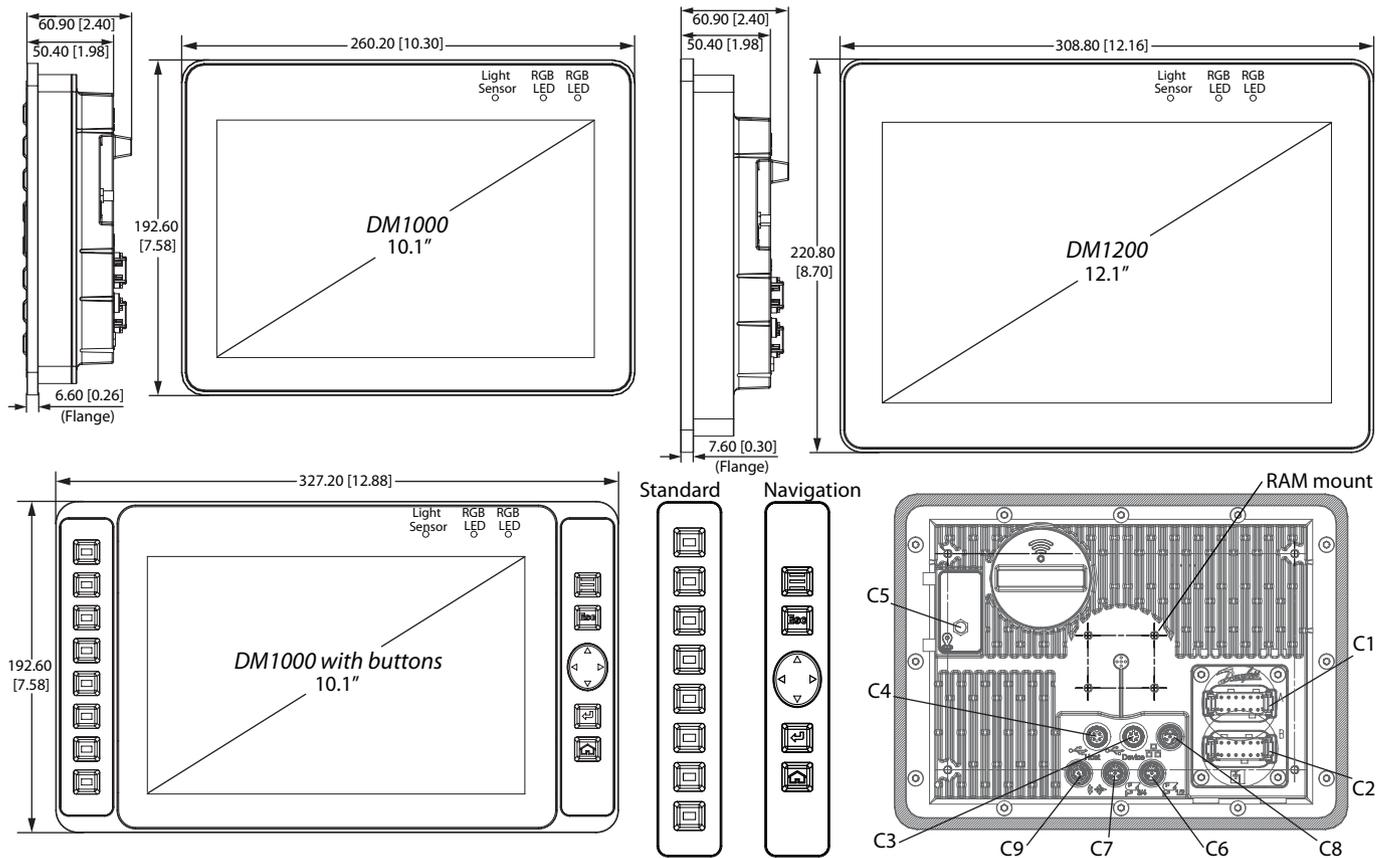


Features

- 4 CAN ports
- RS232 and USB 2.0 high-speed
- Ethernet
- 4 Camera inputs (Up to 2 displayed at one time)
- Audio line out
- Sensor supply out
- Optional keypad with either 8 buttons on each side (16 total) or 8 buttons plus navigation panel (16 total)
- Backlit buttons
- Touch screen (optional)
- Optical signal (2 RGB LEDs)
- Integrated ambient light sensor for automatically adjusting brightness to lighting conditions
- Ignition input
- Wake up over input
- Dual core 800 MHz i.MX6
 - 4 GB Flash memory
- Media player and File viewer (PDF, JPG, MP3, MP4)
- PLUS+1[®] GUIDE programmable
- Real Time Clock (RTC)
- Rugged IP66 and IP67 rating
- 2 Integrated DEUTSCH connectors
- Fast Start-up Time
- RAM[®] or Bracket (optional) mount (portrait or landscape)
- Integrated accelerometer for auto-adjusting between screen orientations
- 32 MB App Log

Comprehensive technical literature is online at www.danfoss.com

DM1x00 Series Displays



C1—DEUTSCH DTM06-12SA

| Pin | Name |
|-----|--|
| 1 | Battery Ground |
| 2 | Battery Power |
| 3 | CAN0+ |
| 4 | CAN0- |
| 5 | DigIn/AnIn/CAN Shield |
| 6 | CAN1+ |
| 7 | CAN1- |
| 8 | +5V SNSR |
| 9 | Ignition Input (K15) |
| 10 | Multifunction input (DigIn/AnIn/Freq/4-20 mA/Rheostat) |
| 11 | Multifunction input (DigIn/AnIn/Freq/4-20 mA/Rheostat) |
| 12 | DigOut |

C2—DEUTSCH DTM06-12SB

| Pin | Name |
|-----|--|
| 1 | Sensor Ground |
| 2 | DigOut |
| 3 | CAN2+ |
| 4 | CAN2- |
| 5 | DigIn/AnIn/CAN Shield |
| 6 | CAN3+ |
| 7 | CAN3- |
| 8 | Multifunction input (DigIn/AnIn/Freq/4-20 mA/Rheostat) |
| 9 | Multifunction input (DigIn/AnIn/Freq/4-20 mA/Rheostat) |
| 10 | Wake Input (DigIn) |
| 11 | DigOut |
| 12 | DigOut |

C3—USB Device M12 4 Pin, Male, 'A' key

| Pin | Name |
|-----|---------------|
| 1 | Device Data + |
| 2 | Device Data - |
| 3 | Device Vbus |
| 4 | Ground |

C4—USB Host M12 4 Pin, Male, 'D' Code

| Pin | Name |
|-----|-------------|
| 1 | Host Data + |
| 2 | Host Data - |
| 3 | Host Vbus |
| 4 | Ground |

Ensure the connections are secured properly to avoid signal degradation.

C6—Video M12 5 Pin, 'A' Code

| Pin | Name |
|-----|---------------|
| 1 | Pwr Ground |
| 2 | Pwr Supply |
| 3 | Signal In 1 |
| 4 | Signal Ground |
| 5 | Signal In 2 |

C7—Video M12 5 Pin, 'A' Code

| Pin | Name |
|-----|---------------|
| 1 | Pwr Ground |
| 2 | Pwr Supply |
| 3 | Signal In 3 |
| 4 | Signal Ground |
| 5 | Signal In 4 |

C8—Ethernet M12 4 Pin, 'D' Code

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

C9—RS232/Stereo M12 8 Pin, 'A' Code

| Pin | Name |
|-----|---|
| 1 | TxD |
| 2 | RxD |
| 3 | Ground |
| 4 | Manufacturing Use Only (Leave Floating) |
| 5 | Left Channel |
| 6 | Right Channel |
| 7 | Ground |
| 8 | NC |

Characteristics/certifications

| | |
|------------------------------|---|
| Processor | 800 MHz i.MX6 |
| RAM | 512 MB |
| FRAM | 32 kB |
| Program Flash | 4 GB |
| Supply voltage | 9 to 36 V _{DC} |
| Connector | DEUTSCH DTM06-12SA and DTM06-12SB |
| Size | 10.1" and 12.1" |
| Aspect ratio | 16:10 wide view |
| Resolution | 1280x800, IPS |
| Brightness | 900 cd/m ² |
| Contrast ratio | 500:1 |
| Viewing angle | ±85° vertical and horizontal |
| Color depth | 24 bit |
| IP rating | IP66 and IP67 front and back |
| Operating temperature | -30°C to +70°C [-22°F to +158°F] |
| Storage temperature | -40°C to +85°C [-40°F to +185°F] |
| Weight | DM1000: 2.106 kg [4 lb 10 oz] DM1000 (w/ buttons): 2.528 kg [5 lb 9 oz] DM1200: 2.722 kg [6 lb] |
| Vibration/Shock | IEC 60068-2-64 (3.17g) /2-27 (50g) |
| EMI/RFI rating | ISO 13766 |
| Humidity | IEC 60068-2-78, 60068-2-30 |
| Transients | ISO 7637/1, 2, 3 |

| | DM1000 | DM1200 |
|--------|---------------|---------------|
| CE | Certified | Certified |
| UKCA | Certified | Certified |
| E-Mark | Pending | Pending |



Model variants

| Part number | Order code | Description |
|-------------|-----------------|--|
| 11223953 | DM1000-0-0-0-0 | 10.1", Non-Touch, No Buttons |
| 11223955 | DM1000T-0-0-0-0 | 10.1", Touch, No Buttons |
| 11223958 | DM1000-0-0-1-0 | 10.1", Non-Touch, 2x8 Buttons |
| 11223956 | DM1000-0-0-2-0 | 10.1", Non-Touch, 1x8 + Navigation Buttons |
| 11223961 | DM1000T-0-0-1-0 | 10.1", Touch, 2x8 Buttons |
| 11223965 | DM1000T-0-0-2-0 | 10.1", Touch, 1x8 + Navigation Buttons |
| 11223963 | DM1200T-0-0-0-0 | 12.1", Touch, No Buttons |

Mounting kits are not included. Please see [Related Product section for ordering info.](#)

Model code

| A | B | C | D | E |
|--------|---|---|---|---|
| DM1x00 | | | | |

| A—Model name | Description |
|--------------|-----------------|
| DM1000 | 10.1" Non-Touch |
| DM1000T | 10.1" Touch |
| DM1200T | 12.1" Touch |

| B—Not configured | Description |
|------------------|-------------|
| 0 | NC |

| C—Not configured | Description |
|------------------|-------------|
| 0 | NC |

| D—Buttons | Description |
|-----------|--------------------------|
| 0 | No Buttons |
| 1 | 2x8 Buttons |
| 2 | 1x8 + Navigation Buttons |

| E—Not configured | Description |
|------------------|-------------|
| 0 | NC |

Related products part numbers

Connector kit

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

Connection tools

| | |
|-----------------|--|
| 10100744 | DEUTSCH Extraction tool size 20 red |
| 10100745 | DEUTSCH solid contacts terminal crimp tool |

Panel mounting kits

| | |
|-----------------|---|
| 11224242 | Panel mounting kit for 10" Display unit with no buttons |
| 11224243 | Panel mounting kit for 10" Display unit with buttons |
| 11224244 | Panel mounting kit for 12" Display unit |

Cable kits

| | | |
|-----------------|---------------------------------------|---------------------------------------|
| 11231512 | Cable, M12 4-Pin to USB Device A code | Connector C3/Plus+1 Programming Cable |
| 11130713 | Cable, M12 8-Pin to Lead Wires A code | Connector C9 |
| 11130712 | Cable, M12 5-Pin to Lead Wires A code | Connector C6,C7 |

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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