



Automotive
Energy & Power Analysis
Field Service
Environmental
Research & Development

MOB-DISP-12-A

Technical reference manual



ISO9001

... the precision signal conditioning company



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12" mobile display

- For mobile usage in conjunction with DEWETRON data acquisition systems or any other mobile PC system
- Touch screen optional



Specifications

Mobile Displays	
	MOB-DISP-12-A
TFT Display	yes
Diagonal	12"
Interface	Analog RGB; Digital video interface (DVI)
Resolution	1024 x 768 (XGA)
Colors	256 k (18 bit)
Luminance	300 cd/m ²
Brightness control	via OSD
Contrast ratio	300:1
Vertical frequency	60 Hz
Power supply	9 - 36 V _{DC}
Power consumption	typ. 12 W (1 A @ 12 V)
Dimensions (W x H x D) without suction cup	297 x 54 x 246 mm (11.7 x 2.1 x 9.7 in.)
Weight	2.5 kg (5.5 lbs)
Mounting	2 suction cups
Optional: Touch Screen	
Interface	USB

Caution:

Do not place the display in front of the air bag module cover or in front of the seat areas that may come in contact with a deploying air bag!

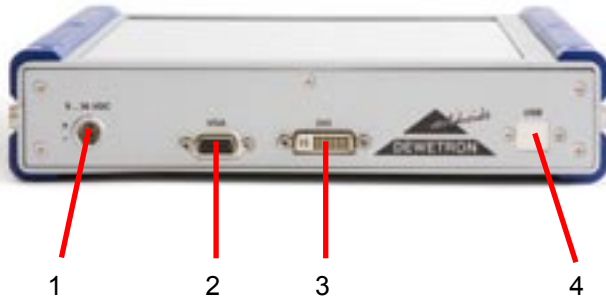
Any heavy object within a moving vehicle can become a deadly projectile due to sudden stops or changes in direction, therefore all possible care should be taken to ensure that all occupants and objects within a vehicle are carefully and securely held down according to all applicable federal and local laws and ordinances, company policies, and common sense.

Always secure the MOB-DISP-12 or any heavy object with at least equal care as you would use for a human being. This is for the safety of the human beings who might be in or around the vehicle.

DEWETRON cannot be responsible for injury, death, damage, or any kind of loss resulting from the use, proper or improper, of the MOB-DISP-12, or any other items or services provided by DEWETRON. Use them at your own risk.

MOB-DISP-12-A

Connectors



- 1 Power supply
- 2 VGA connector
- 3 DVI connector
- 4 USB connector

Power supply

The display requires supply voltage within 9 to 36 V_{DC}. A power supply cable or external power supply is included with shipment (depending on system configuration).



- Pin assignment:
- 1 PWR 9 to 36 V_{DC}
 - 2 GND

VGA connector

Meets the standard VGA specifications. Shipment includes a 3 meter VGA cable.

DVI connector

Meets the standard DVI specifications. Shipment includes a 3 meter DVI cable.

Interface for optional touch-screen

USB interface: Standard PC compatible USB interface.
Shipment includes a 3 m connection cable.



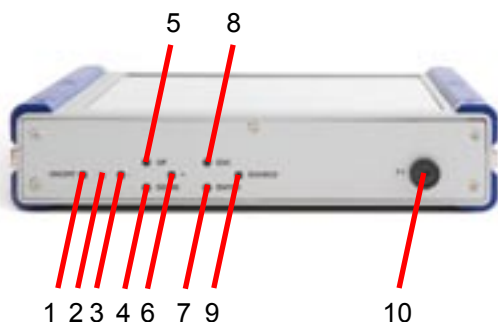
4-pin USB B connector



Schematic

- Pin assignment
- 1: +5 V_{DC}
 - 2: Data -
 - 3: Data +
 - 4: GND

User interface



- 1 Power
To switch on and off
- 2 Status LED (green: signal detected / normal operation; red: no signal available; blinking red: TBD)
- 3 -
To navigate through the menu or decreasing values.
- 4 Scroll down (Enter) / Short-Cut / Brightness control
- 5 Scroll up (Esc)
- 6 +
To navigate through the menu or increasing values.
- 7 Enter menus and submenus
- 8 To auto-adjust the display
- 9 Toggle between input source (VGA / DVI)
- 10 Fuse
Use a 3.15 A fuse

First steps

1. The display can be connected to a system already running.
2. Connect the VGA cable to PC or DEWETRON system and MOB-DISP-12 and fix it with screws.
3. Connect power supply cable to display and fix it.
4. Change screen resolution on your WINDOWS® 2000/XP/Vista system to 1024 x 768 or to 800 x 600 pixel with max. refresh rate of 75 Hz.
5. Change settings of VGA board to 'external' (CRT). Now the internal display is deactivated and the external display is activated.
If you change VGA board to simultaneous output, both displays will work.
6. The VGA board can be set back to LCD (internal display) on demand, and the visualisation on the MOB-DISP-12 disappears. If you power down the system without changing from CRT to LCD (external to internal), at the next startup, the system will boot automatically with internal LCD display.*

* This behaviour is valid only when using a DEWE-20x0 or DEWE30x0 system with built-in TFT screen!

MOB-DISP-12-A

Mounting Brackets (option)

To fix the MOB-DISP-12-A with belts we recommend to mount the optional mounting brackets. The four mounting brackets are shipped with eight screws to tighten them on the MOB-DISP-12-A.

