

DMI-110

10.4" Railway Monitor



VDS Rail
The onboard networking
company

The DMI-110 Railway Monitor is designed to provide a robust and versatile solution for rolling stock applications. With support for a wide operating voltage range and a top-level mechanical enclosure, the DMI-110 is ready for harsh environments and compliant with EN 50155.



Highlights

- Rolling Stock applications
- EN 50155 compliant
- Operational Temperature: -25°C ÷ +70°C according to EN 50155 class OT3
- Wide operating voltage range
- Resistive touch screen
- SVGA or XGA color TFT LCD panel
- Automatic brightness adjustment
- One (1) VGA Video Input port
- Rated IP65 on front panel

Technical specifications

PHYSICAL DATA

Power supply voltage (insulated)	Nominal 24/96/110 Vdc Range according to EN 50155 M23, female, 12-ways + 2 pins connector
Video Input port	VGA - D-Sub, female, 15-ways connector
Serial port for touch screen connection	RS232 - D-Sub, female, 9-ways connector
Remote control port Digital input signals	RS232 - D-Sub, male, 9-ways connector
Interruption voltage supply class	S2, according to EN 50155
Power consumption	
SVGA resolution version	24 W max
XGA resolution version	27.5 W max
Overall dimensions	310 x 214 x 52 mm
Weight (max)	3.2 kg
Operating temperature	-25 °C ÷ +70 °C (+85 °C for 10 min. according to EN 50155 class OT3 with extended operating temperature ST1)
Relative humidity (non-condensing)	0 % ÷ 95 %
Storage temperature	-40 °C ÷ +85 °C
Degree of protection	IP65 on front panel

DISPLAY PHYSICAL DATA

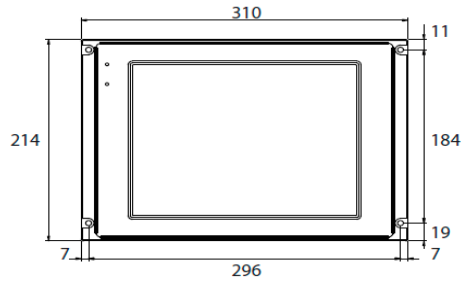
Type	Color TFT LCD
Size	10.4"
Resolution	
STANDARD	800 x 600 pixels (SVGA)
Colors	262K / 16.2M
Contrast	500:1 (typ)
Brightness	420 cd/m ² (typ)
OPTIONAL	1024 x 768 pixels (XGA)
Colors	262K / 16.2M
Contrast	1000:1 (typ)
Brightness	450 cd/m ² (typ)
Touch Screen	Resistive
Sensor	Brightness sensor

APPROVALS / COMPLIANCE

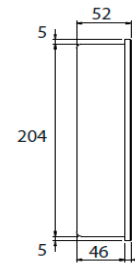
EN 50155	Railway Applications (Electronic equipment used on rolling stock)
EN 50121-3-2	Electromagnetic compatibility rolling stock apparatus
IEC 60068-2-1	Environmental testing: Tests - Test Ad: Cold
IEC 60068-2-2	Environmental testing: Tests - Test Bd: Dry heat
EN 60068-2-30	Environmental testing: Tests - Test Db variant 2 - Damp heat
EN 61373	Shock & Vibration - Category 1 class B
EN 50124-1	Insulation coordination
EN 45545-2	Fire & Smoke

DMI-110

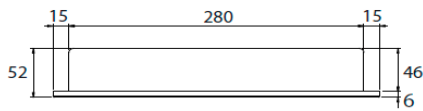
10.4" Railway Monitor

**VDS Rail**
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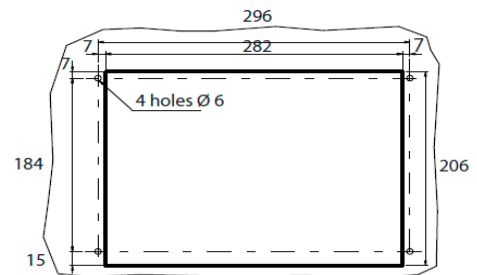
FRONT VIEW



SIDE VIEW



TOP VIEW



PANEL CUT OUT