



12.1"

12.1" Full Touch (FT)



6.5"

Human Machine Interface (HMI)

EN 50155
EN 45545

FUNCTIONS

The Trainnet® Human Machine Interfaces (HMI) are interactive displays. They can be used to display information to train drivers or crew members with interactive displays. They can also be used as CCTV monitor as well as for any Trainnet® applications.

KEY FEATURES

The Trainnet® HMIs are flexible devices providing ease of use and robustness for all Trainnet® applications.

The touch control buttons positioned around the display area provide great durability with no mechanical part to wear out. The layout of the keys is designed according to the international UIC 557 standard. You can easily configure the keys to match any of your requirements.

The flat displays, including the touch control buttons, are protected behind an anti-reflective vandal proof safety glass (IK 07, IP 65 tightness) for durability.

As the displays are very compact, they can be fitted virtually anywhere in the train and

are easy to mount (rear fixing for protection). Two sizes are available for flexibility: 6.5" and 12.1" with respectively 640 x 480 and 1024 x 768 pixel resolutions.

As part of a Trainnet® System, the HMI is usually configured and controlled by the Train Computer's CPU (Trainnet® CPG, Central Processing unit with Graphics controller). There is a DVI-I interface and a touch screen interface integrated into the same cable.

The Trainnet® HMI also sends self-diagnostics data to the Train Computer, such as module temperature and the count of lamp's operating hours. The display does not include any moving parts and the lamp is the only replaceable component. The absence of components that are subject to any wear out guarantees a long unit lifetime.

OPTION

The Trainnet® HMI 12.1" is available as a full touch screen as an option (12.1" FT). The 12.1" FT display does not have touch control buttons around the display area.

TECHNICAL SPECIFICATIONS

Dimensions (W x H x D)

6.5": 220 x 170 x 125 mm
12.1": 340 x 270 x 106 mm
12.1" FT: 320 x 260 x 75 mm

Weight

6.5": 3.7 kg
12.1" and 12.1" FT: 6 kg

Input Power

6.5": 24 V DC or 110 V DC
12.1": 24 V DC, 72 V DC or 110 V DC
12.1" FT: 110 V

Power Consumption, Typical

6.5": Standby 3.5 W (no image), Full brightness 11 W
12.1": Standby 4 W (no image), Full brightness 15 W
12.1" FT: Standby 5 W (no image), Full brightness 15 W

Temperature Range (operational)

-25 °C...+70 °C

MTBF (40 °C ambient temperature)

50 000 h

Display Resolution

6.5": 640 x 480 (VGA)
12.1" and 12.1" FT: 1024 x 768 (XGA)

Active Display Area

6.5": 133 x 99 mm
12.1": 246 x 184 mm
12.1" FT: 245 x 184 mm

Colour Depth

262 144

Viewing Angle (Cr210)

6.5": -50~50(H) -60~30(V)
12.1": -65~65(H) -75~45(V)

Luminance

6.5": 440 cd/m2 typ.
12.1" and 12.1" FT: 320 cd/m2 typ.