

KONTRAC HUMAN-MACHINE INTERFACE



KONTRAC HUMAN-MACHINE INTERFACE (HMI) is the complete HW&SW solution for rail vehicle applications, such as Driver-Machine Interface (DMI). The platform includes operating system and proprietary graphical programming tool for developing HMI applications, GrapDisplay.

It is fully customizable, modular, robust and reliable platform, and yet, it offers high-performance graphics capabilities, thanks to the powerful Quad-core processor.

Various screen sizes (7-17 inch) and resolutions (up to 1920x1020 px) are available, with touch screen as an option. Fanless casing is designed in order to increase reliability and versatility, save space inside the mounting desk and reduce noise.

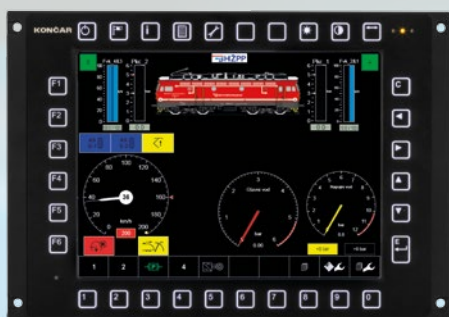
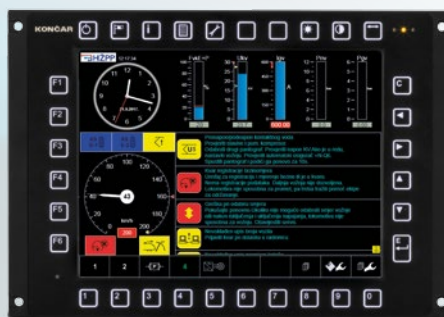
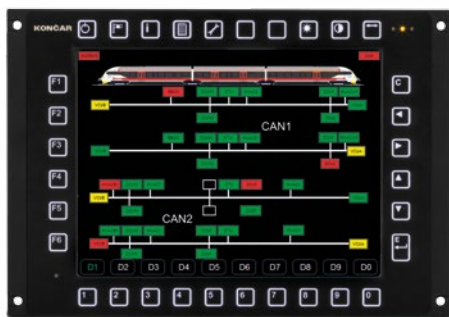
Connector's layout on the back side is fully customizable, offering all standard interfaces such as RS232, RS485, CAN, USB, Ethernet, mPCI for MVB modules, digital audio, HDMI as optional, etc.

KONTRAC DMI meets all relevant railway standards, including EN50155. It is made for operation in the harshest environments.

Technical specifications KHMI101A:

- Screen: 10,4" TFT display with QVGA resolution 800x600, 4:3, LED backlight, automatic dimming function, resistive touch screen (optional)
- Keyboard: UIC612 layout
- Housing: 310x214x120 mm, fanless, IP65 (front), IP42 (side and back)
- Software: Linux operating system, GrapDisplay application development tool
- Interfaces: RS232, RS485, CAN/CAN Open x 2, Ethernet, mPCI Express for various additional communication modules (MVB, GSM, GPS, WiFi...), HDMI (optional), digital audio
- Video display IP cameras
- Power supply: 24V
- Operating temperature range: -40 to +85 oC (IEC 60571:2006, Class Tx)
- Standards: EN50155:2008, EN61373, EMC EN50121-3-2:2006, NF F16 - 101/102, EN ISO 11925-2, EN45545

GrapDisplay



GrapDisplay

GrapDisplay is easy to use graphical development tool for designing Human-Machine Interface (HMI) layouts without textual coding.

It consists of virtual instruments library, communication driver library and graphical application editor. It runs on Windows and Linux operating systems.

One GrapDisplay licence is included in the delivery price of the KONTRAC HMI device (multiple licences available as an option). We offer full support, trainings or complete application development services.

KONČAR

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Key Features:

- Customizable graphical display elements
- Fast and intuitive programming
- Precise diagnostic and error detection
- Can be used both on desktop development computer or directly on the HMI device
- Suitable for all HMI/DMI devices based on Windows and Linux platforms