ecomatDisplay: powerful, robust HMIs for mobile machines

Units for operation and monitoring

LED displays 10", 12" and 12.3" with buttons or touch screen
Housing optimised for mobile use
Optical bonding: offers optimum readability, prevents fogging of the front pane
Mounting of the devices in any orientation (portrait/landscape)
Programmable via CODESYS, numerous interfaces such as CAN, USB 2.0 and Ethernet

Display and operation in harsh environments
The new robust HMIs have been developed for use in cabins and outside vehicles. Thanks to a high protection rating and optical bonding they are optimally protected against moisture. They withstand strong impacts and permanent vibrations as well as extreme ambient temperatures. The high-resolution colour displays offer optimum readability even in bright lighting conditions. For operation the devices have freely programmable buttons and/or a capacitive touch screen. For pure display purposes, there is also a device version without operating elements. The integrated powerful PLC can perform visualisation and operation tasks. It is freely programmable via CODESYS. Numerous interfaces at the back of the device, e.g. CAN, analogue video, USB 2.0 and Ethernet offer maximum connectivity.
### Mechanical design

The displays have a sealed diecast aluminium housing with protection ratings IP 65, IP 67. For connection sealed M12 connections and a 40-pole AMP connector are used. The displays can be used as surface mount device using the tried-and-tested RAM mount system or can be mounted in a wall. Depending on the requirement, the displays can be installed in any orientation.

### Powerful electronics

The integrated 64-bit controller allows a powerful presentation of the high-resolution graphics, processing of the application program and the device functions. Furthermore, there are many opportunities with regard to communication and networking with other systems and networks. With the integrated real-time clock it is possible to give log data a time stamp for better traceability.

### Audio

All displays have extensive audio functions that, depending on the version, include recording and output.

### Programming to IEC 61131-3

The CODESYS license included in the scope of supply enables clear and easy creation of the application software. The graphic elements are created via the integrated visualisation editor and can, for example, be selected via the buttons or the optional touch function.

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For further technical details, please visit: ifm.com