

Connecting
man & machine.



DISPLAY SYSTEMS



Smart and complex
control solutions.
Direct integration.



Data sheet: Display systems

► Keeping you in the picture

We provide scalable display systems tailored to customer specification for use in mobile or stationary machines, systems that keep you in the picture in your application. Our devices are configurable from display format to mechanical and electrical integration to software features; we supply the systems as individual display units or as solutions for integration into complete control panels.

How you benefit

- You benefit from a complete control system with integrated display from our own production in a solution matched to your application in form and function.
- As a cost-effective modular solution to your exact hardware and software specification.
- In an enclosed and seamless control panel designed for a uniform look and feel to match your design requirements.
- Compatible machine control interfaces.

Our product range

Display integration:

We provide a wide range of displays in sizes from 5.7" to 10.4" with resolutions between 640x480 px and 1024x600 px for input and machine state visualisation. Depending on the version, our displays support brightness levels of up to 1,000 cd/m², and are available with optional touchscreen control. Options also include a variety of functional coatings on the display surfaces as well as special infrared and ultraviolet filters to minimise reflection and glare during outside, and panels in safety glass or toughened laminated glass to protect both the operator and the display from shock and impact.

Flexible display integration:

Mechanical and optical display integration gives you an enclosed control panel featuring front-side IP65 protection with an interface layout designed to your specifications. Options include sealing the gap between screen and glass using optical bonding for increased colour brilliance, sharper contrast, and reliable protection against condensation; separate integrated short-stroke keys or capacitive sensors configured for frequently used functions ensure fast and easy menu navigation; and a variety of individual mechanical buttons for emergency stop or ignition switches as well as joystick controls integrated into the control panel. Function block layouts ensure straightforward, intuitive control, and tactile guidance in the surface ensures fast and accurate movement. Control surfaces with illuminated buttons and panels are available in special night-time design to ensure safe machine operation in poor lighting conditions.

Custom programming options:

We provide a variety of system-on-module (SOM) options using embedded Linux for software control. The firmware provides graded visualisation options compatible with our HMI Designer or CODESYS IDE for you to program your own visualisation options, giving you the freedom to configure display content and menu structure to meet your needs; we also provide system programming services to your specifications on request. The devices are also available as "clean" installations with only the operating system pre-installed for customers that wish to use their own custom applications.

Simple integration:

We offer the display systems with CAN, CANopen, J1939, Ethernet or Profinet interfaces ensuring simple and quick machine control integration, with two integrated USB 2.0 ports and/or additional inputs for video signal processing as options.us.

A complete, fully wired control system with look & feel to individual specification

Display integration to meet your requirements

Displays with or without touchscreen function

Optional function keys for faster navigation



Function keys arranged in blocks for frequently used functions, enabling faster and easier machine operation

Optional integration of various switches, joysticks, buttons and similar

Delivery with compatible machine control interface



APPLICATION AREAS

