



## ehb SMARTdisplay 70

The ehb SMARTdisplay 70 delivers a multitude of functions for the monitoring, visualisation, operation and control of applications via CAN bus (SAE J1939).

### APPLICATIONS

Construction machinery

Communal vehicles

Agricultural machines

Plant engineering

Industrial visualisation

Maritime applications

### High-resolution colour display with automatic adjustment of background brightness thanks to an integrated brightness sensor

ehb SMARTdisplay 70 ensures perfect legibility even under poor lighting conditions.

### Capacitive touch screen

Intuitive, graphic user navigation without additional mechanical operating elements, directly on-screen.

### UV-resistant, rugged housing from powder-coated aluminium pressure die cast with high-quality, single-side micro-etched float glass and non-sparkling effect

The slim design of the ehb SMARTdisplay 70 enables perfect integration. The surface will tolerate cleaning with disinfectant. No annoying reflections.

### ehb workbench for the configuration of customer-specific visualisation and user interfaces

Individual adaptation of all display and signalling elements and integration of customer-specific logos, symbols and pictograms. Freely positionable and configurable. The Drag&Drop concept enables intuitive operation without programming expertise.

### USB port

Transfer of data to USB storage media for postprocessing and documentation. Data and project loading from USB storage media. Optional customer-specific adaptations.

### Real-time operating system and ready for Industry 4.0

Realisation of complex, real-time-capable applications with application reliability in M2M communication.

### Web interface

Individual display of customer-specific data and application parametrisation via web server.

Connection via integrated RJ-45 interface.

Optional customer-specific adaptations.

## ehb SMARTdisplay 70

ehb5443

### TECHNICAL DATA

#### Electrical data

Voltage range	6 – 32V (typ. 12 – 24V)
Interference	14 – 28V (6Vss, 50Hz on UB)
Voltage peaks	200V (2ms on UB)
Power consumption	350mA (in UB 8 – 24V)
Operating temperature	-20°C* to +70°C *(up to -40°C when additional measures are taken)
Storage temperature	-30°C to +80°C
Inputs	CAN bus interface, USB 2.0, Ethernet
Outputs	CAN bus interface, USB 2.0, Ethernet
Reserve Output	1A, short-circuit proof
Analogue inputs	2x Resistance measurement to ground
RAM memory	512 MByte
Flash memory	128 MByte, expandable to 8GByte with internal SD card
CAN bus interface	250 kBit/s, CAN 2.0B, SAE J1939
Operating hours counter	Integrated
Daily operating hours counter	Possible via plug-in
Software	ehb-workbench

#### Visualisation

Display type	LCD colour display, TFT, transmissive
Resolution	800 x 480 pixels
Visible screen diagonal	7" (17.8cm)
Brightness	308 – 352 cd/m <sup>2</sup>
Contrast ratio (CR)	300 – 350
Background lighting	LED, white

#### Mechanical data

Housing dimensions (L x W)	220 x 162 mm
Installation dimensions (L x W x H)	205 x 148 x 40.4 mm
Installation cut-out (L x W)	205 x 148 mm
Housing material	Powder-coated aluminium pressure die casting
Weight	1,200g
Installation	4 retainers, bolted from the rear
Degree of protection	IP67
Connection	12-pole round connector USB 2.0 RJ-45

#### Test standard

Humidity	DIN EN 60068-2-3
Vibration	DIN EN 60068-2-6
Impact	DIN EN 60068-2-27
CE marking	according to Directive 2014/30/EU

#### Accessories

ehb-workbench	Free download from our website
Connection cable, 12-pole, 3m	M11325

