ehb **SMART**display 101

The ehb SMARTdisplay 101 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 101 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 plastic housing manufactured from PA 6.6 GF30 with high-quality, single-side micro-etched float glass and non-sparkling effect
The slim design of the ehb SMARTdisplay 101 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
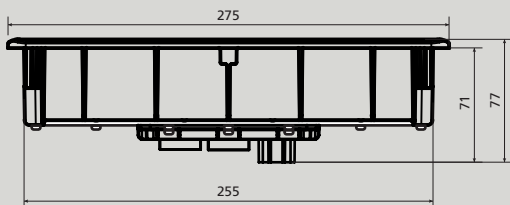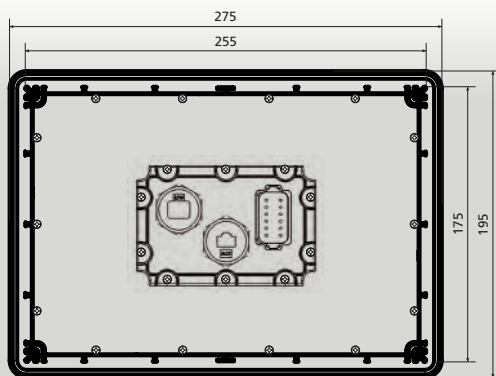Realisation of complex, real-time-capable applications with application reliability in M2M communication.

Web interface
Individual display of customer-specific data and application parametrisation via web server.
Connection via integrated RJ-45 interface.
Optional customer-specific adaptations.

Electrical data	
Voltage range	6 – 32V (typ. 12 – 24V)
Power consumption	450mA (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
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	1280 x 800 pixels
Visible screen diagonal	10.1" (17.8cm)
Brightness	308 – 352 cd/m²
Contrast ratio (CR)	300 – 350
Background lighting	LED, white
Mechanical data	
Housing dimensions (W x H)	275 x 195 mm
Installed dimensions (W x H x D)	275 x 195 x 110 mm including plug
Installation cut-out (W x H)	257 x 177 mm
Housing material	PA 6.6 GF30 with Al rear panel
Weight	1300g
Installation	4 clamping elements, bolted from the rear
Degree of protection	IP67
Connection	Deutsch plug Typ DT04-12 PA
	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, 3m	
Deutsch DT06-12SA gerade	ehb2344
Connection cable, 3m,	
Deutsch DT06-12SA 90° angled	ehb2345
Deutsch mating connector	
(Socket) with contacts	ZUB5440

Housing dimensions figure: 275 / 255 / 175 / 195

Side view figure: 275 / 71 / 77 / 255