

MCD7 Mobile Colour Display

with touchscreen technology

The 7-inch colour display is specially designed for installation in mobile machinery, used in harsh environments for example in agriculture.

First-class design, an extremely scratch- and break-resistant surface and the anti-reflective glass make the display a valued helper in the driver's cab, even in extreme light conditions.

The MCD7 enables monitoring machine conditions and limit values, also direct operation of the machine by touch.

The touch-screen can be easily custom-configured. It offers free design possibilities to display and to operate preferred instruments, individual menus and overviews.

The monitor can be used horizontally or vertically. The vertical orientation of the display makes it possible to display the machine environment in a natural way.

The display is equipped for the connection of a colour camera and features an acoustic signal transducer.

A USB port serves to read user data, to back up the customized configuration and for loading updates.

Data exchange with control units and sensors is carried out via CAN bus - all CAN-based protocols are suitable.



Technical Data:

Dimensions	Width x height x depth in cm: 12,8 x 18,9 x 2,9
Housing	Colourless anodized aluminium protection category on the front IP67 and IP69 protection category on the back IP65 and IP67
Weight	0,7kg
Display	800 x 480 pixels with 16M colours, 7-inch-diagonal, (177,8mm) aspect ratio 15:9, Dimmable, LED-backlight Brightness: 450cd/m ² , Contrast: 800:1 Viewing angle: vertical 178°, horizontal 178° Anti-reflective and hardened non-Flex-Tec glass
Operation	By projected capacitive touchscreen
Operating conditions	Normal, Standby
Programming	C ++ by the manufacturer or user
Power supply	Operating UB = 8 ... 32V Data retention up to UB = 4,5V
Connections	M12 8-pole for supply M12 5-pole, A-coded for camera Micro-USB
Power consumption	Normal operation 12V / approx. 0,45A (without external peripherals) Standby 12V / approx. 2mA
Microcontroller	1 x ATSAMA5D36 / 536MHz (ARM Cortex –A5)
Mass storage	4GB eMMC
Main memory	256MB LPDDR2
Time recording	Controller-internal real-time clock, battery backed up
Interfaces	2 CAN 2.0B, maximum data rate: 1Mbit/s 1 USB 2.0 High Speed Host, maximum data rate: 480Mbit/s
Inputs	1 activation input (terminal 15) 1 camera input (composite video signal) with UB outfeed for 0,3A
Signal transducer	1 internal acoustic signal transducer
Protection	Reverse polarity protection, pressure compensation element

Operating temperature	-30 ... 70°C (ambient)
Mounting	VESA MIS-D 75x75mm
EMV	<p>Road vehicles: 2014/30/EU, UN/ECE-R10, ISO 10605, ISO 7637-1, ISO 7637-2, ISO 7637-3</p> <p>Construction machinery EN 13309</p> <p>Agricultural, forestry machinery: Directive 2009/64/EG, EN ISO 14982</p> <p>Industrial use: 61000-6-2, EN 61000-6-4</p>