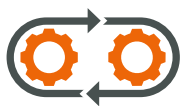


M2SMART® HMI

MOBILE HMI WITH FUNCTIONAL SAFETY ACCORDING TO DIN EN ISO 13849

Smart solutions for industry

- ✓ Modular design for individual device configurations
- ✓ Focus on ergonomics for fatigue-free work
- ✓ Secure Android™ Industrial+ operating system independent of Google services
- ✓ Security patches and upgrades over the entire product lifetime
- ✓ Functional safety according to ISO 13849
- ✓ Illuminated emergency stop button and three-stage enabling switch
- ✓ App for easy parameterization
- ✓ Quick-change battery for uninterrupted work



Drive and Control
Technologie



Machinery and Plant
Engineering



Industrial
Automation



INNOVATION BW
2020
Innovationspreis Baden-Württemberg
Dr.-Rudolf-Eberle-Preis
Anerkennung 2020



Flexible and modularly applicable for your processes

The M2Smart® HMI with the corresponding add-on modules combines safe and wireless machine operation with the comfortable usability of a smartphone or tablet.

One illuminated emergency stop button including three-stage enabling switch enables reliable operation even in safety-critical areas. The quick-change battery ensures uninterrupted work for many hours and the capacitive, 4.8-inch or 10.1-inch display guarantees optimum display and user-friendliness.

Thanks to a connection that is insensitive to interference, all safety data is transmitted via Bluetooth without interruption; even under difficult environmental conditions.

Last but not least, the M2Smart® HMI in both size variants offers the flexibility to add further, individual functional elements. This is made possible by the open operating system Android™ Industrial+ and the patented mechanical/electrical interfaces for toolless or fast module change.



Series devices from 2022

M2Smart® HMI



M2Smart® HMI5 M2Smart® HMI10

Display

Type:	TFT color display	IPS TFT color display
Size:	4.8" (16:9)	10.1" (16:10)
Resolution:	720 x 1280 pixels (vertical)/ 1280 x 720 pixels (horizontal)	800 x 1280 pixels (vertical)/ 1280 x 800 pixels (horizontal)
Touchscreen:	Capacitive	
Background lighting:	LED backlight	

Safety elements

Enabling switch/ Emergency stop button:	Safety category 3/PLd as per ISO 13849 achievable
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Interfaces

Communication:	Visualization and operator data: WLAN according to IEEE802.11a/b/g/n/ac/d/h/e/i/r/w/v (2.4 GHz/5 GHz) Safety data: Bluetooth BR/EDR
NFC reader:	For pairing M2Smart® HMI and M2Smart® Gateway
Distance control:	Individually configurable effective range limitation

Control elements

Emergency stop button:	Illuminated emergency stop button	
Enabling switch:	Three-stage enabling switch	
Keys:	Two side keys, freely configurable	One side key, freely configurable

Computer core

CPU:	NXP® i.MX8M Mini, 4x Cortex A53 (4x 1.8 GHz), 1x Cortex M4 (1x 400 MHz)
Memory:	16 GB Flash, 2 GB RAM Optional: 32 GB Flash, 4 GB RAM

Dimensions, Weight

Dimensions without module:	170 x 82 x 28 mm (L x W x H)	197 x 313 x 58 mm (L x W x H)
Weight without module:	Approx. 390 g	Approx. 1500 g
Dimensions with module:	205 x 82 x 57 mm (L x W x H)	197 x 333 x 93 mm (L x W x H)
Weight with module:	Approx. 500 g	Approx. 1750 g



M2Smart® HMI



M2Smart® HMI5 | M2Smart® HMI10

General information

Operating system:	Android™ Industrial+	
Power supply:	Quick-change battery, li-ion	Quick-change battery, li-ion or 15 V DC/2.4 A via DC socket
Battery capacity:	22.8 Wh (6000 mAh/3.8 V)	
Protection class:	IP65	
Certifications:	CE	
Accessories:	Different modules possible including handwheels, additional keys, etc.	
System components:	DS2Smart®, M2Smart® Gateway	M2Smart® Gateway
Directives:	Machinery Directive 2006/42/EC // RED Directive 2014/53/EU // RoHS Directive 2011/65/EU	

M2Smart® Gateway

M2Smart® Gateway

Interfaces

Safety-related outputs:	Two digital outputs for emergency stop function, Two digital outputs for enabling function, Two digital outputs to indicate safe operation
Unsafe outputs:	Three unsafe outputs, e.g. for coupling indication via light signal
NFC transponder:	For pairing M2Smart® HMI and M2Smart® Gateway, remote or multiple NFC transponders possible
Antennas:	Antenna connection for screw antennas

Dimensions, Weight

Dimensions:	Wall mounting (IP65): 157 x 87 x 50 mm (L x W x H) Top-hat rail mounting (IP20): 143 x 122 x 45 mm (L x W x H)
Weight:	Approx. 460 g

General information

Housing variants:	Two housing variants available for installation inside (IP20) and outside (IP65) the control cabinet
Power supply:	24 V DC
Certification:	CE
System components:	M2Smart® HMI5, M2Smart® HMI10
Directives:	Machinery Directive 2006/42/EC // RED Directive 2014/53/EU // RoHS Directive 2011/65/EU

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Direct Link to M2Smart® HMI webpage:

