



## Industrial Automation - Products & Configurations

MH100-TFX MONITOR		POWER [W]
Basic configuration	LCD TFT 12,1" • touch-screen with USB interface • Stainless Steel TrueFlat front panel • 24V DC isolated power supply • Video input VGA and DVI-D • 12 months warranty	14

DISPLAY & TOUCH-SCREEN		POWER [W]
12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 80°:80°/80°:60° 12,1" Touch-Screen • 5 wires resistive technology • USB I/F		
12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 80°:80°/70°:70° 12,1" Touch-Screen • 5 wires resistive technology • USB I/F		+ 5
15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 500 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° 15" Touch-Screen • 5 wires resistive technology • USB I/F		+ 8
17" LCD TFT 5:4 • SXGA, 1280x1024, 16M colors • backlight LED, 350 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° 17" Touch-Screen • 5 wires resistive technology • USB I/F		+ 17
19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • backlight LED, 350 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° 19" Touch-Screen • 5 wires resistive technology • USB I/F		+ 15
19" LCD TFT 5:4 MVA • SXGA 1280x1024, 16M colors • backlight LED, 300 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 89°:89°/89°:89° 19" Touch-Screen • 5 wires resistive technology • USB I/F		+ 28

POWER SUPPLY		POWER [W]
Input voltage 24V DC • not isolated		- 1
Input voltage 24V DC • isolated		
Input voltage 110/230V AC • autoranging		+ 0

### OPTIONS

		POWER [W]
<b>SERIAL T/S</b>	RS232 serial interface for touch-screen • inside monitor installation • without external cable > <b>note 1</b>	1
<b>DIRECT CONNECTION CABLES</b>	Calbes kit 1,8 mt VGA (VGA 1,8 mt / USB 1,8 mt)	-
	Calbes kit 1,8 mt DVI (DVI 1,8 mt / USB 1,8 mt)	-
	Calbes kit 7,5 mt VGA (VGA 10 mt / USB 7,5 mt) > <b>note 2</b>	-
	Calbes kit 7,5 mt DVI (DVI 10 mt / USB 7,5 mt) > <b>note 2</b>	-
	Calbes kit 10 mt VGA (VGA 10 mt / USB 11 mt amplified) > <b>note 2</b>	-
	Calbes kit 10 mt DVI (DVI 10 mt/ USB 11 mt amplified) > <b>note 2</b>	-
	Extension calbe for RS232 touch-screen interface (DB9M/DB9F) 1,8 mt	-
<b>WARRANTY EXTENSION</b>	Warranty extension to 18 months on basic system and its variants	
	Warranty extension to 24 months on basic system and its variants	
	Warranty extension to 36 months on basic system and its variants	

NOTES
For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.
<b>1:</b> Usage of the serial interface exclude the USB interface operation for touch-screen
<b>2:</b> With kit cables 7,5mt, USB 1.1 standard is ensured
With kit cables 11mt, USB 2.0 standard is ensured; USB cable has an amplified signal repeater in the middle;
Repeater has dimensions of (mm) 32x17x90; distance of the repeater from the edges is 5mt and 6mt



TECHNICAL SPECIFICATIONS	
Case	Panel mount
Front panel	TrueFlat stainless steel 1.4301 surface brushing grain 180 medium • Polyester Autoflex EB A180 RAL 7035 color • ASEM logo serigraph printed
Touchscreen	5 wires resistive technology • overlaminated with OCA (Optical Clear Adhesive) • on board controller • USB I/F (RS232 optional)
Overall dimensions & weight	See details on the related section
Frontal protection	IP66
Power supply	DC Input voltage 18÷32V DC • not isolated
	Input voltage 18÷36V DC • isolated
	AC Input voltage 90÷264 V AC • isolated • Autoranging
Rear access interfaces	1 x VGA (DB15F) • 1 x DVI-D Single Link • 2 x USB 2.0 (Type A) • 1 x USB 2.0 (HUB input, Type B) • 1 x RS232 (DB9F) for T/S, optional
Environmental specifications	Operating temperature: 0° ÷ +50°C, 0° ÷ +45°C with LCD 19" (not MVA) • Storage temperature: -5° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL508)
Standard warranty	12 months • Warranty management by ASEM headquarters

**DIMENSIONS (mm)**

**FRONT VIEW**

**SIDE VIEW**

LCD TFT	A	B	C	D	E <sub>1</sub> /E <sub>2</sub>	F	G	H	Weight (kg)
12,1"	335	270	315	250	10/10	45	19	5	4,6
15"	398	315	370	295	10/14	45	19	6	5,3
17"	455	355	435	335	10/10	45	21	6	6,7
19"	490	388	470	368	10/10	45	21	6	7,3