


Industrial Automation - Products & Configurations
MH084-TF MONITOR

Basic configuration	LCD TFT 8,4" • touch-screen with USB interface • aluminum TrueFlat front panel • 24V DC power supply not isolated • Video input VGA and DVI-D • 12 months warranty
---------------------	--

DISPLAY & TOUCH-SCREEN	MH084-TF • 8,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R/U:L (typ): 75°:75°/60°:70° 8,4" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH104-TF • 10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 400 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/60°:80° 10,4" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH121-TF • 12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60° 12,1" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH121X-TF • 12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/70°:70° 12,1" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH150 • 15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 450 cd/m2 • Viewing angle: L:R/U:L (typ): 80°:80°/70°:70° 15" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH156-TF • 15,6" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° 15,6" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH170-TF • 17" LCD TFT 5:4 • SXGA, 1280x1024, 16M colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° 17" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH185-TF • 18,5" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 170°/160° 18,5" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH190-TF • 19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° 19" Touch-Screen • 5 wires resistive technology • USB I/F	
	MH215-TF • 21,5" LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 178°/178° 21,5" Touch-Screen • 5 wires resistive technology • USB I/F	

POWER SUPPLY	Input voltage 24V DC • not isolated	
	Input voltage 24V DC • isolated	
	Input voltage 110/230V AC • autoranging	

OPTIONS

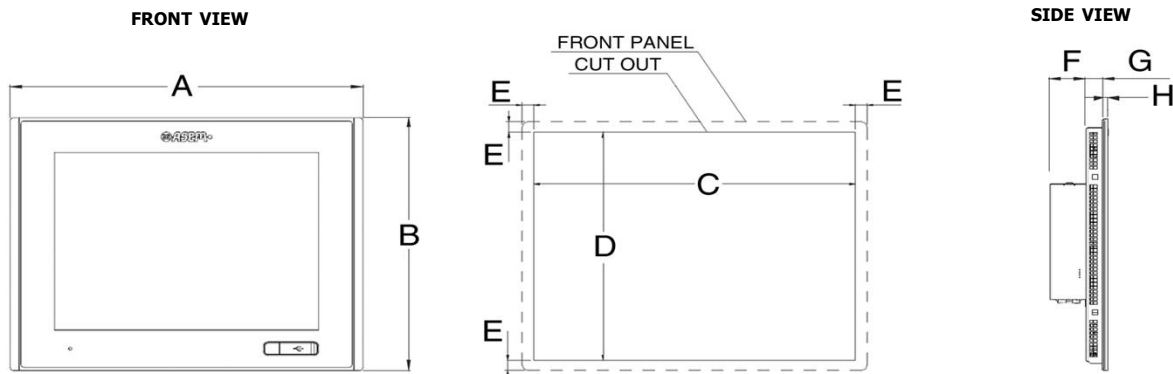
SERIAL T/S	RS232 serial interface for touch-screen • inside monitor installation • without external cable > note 1	
DIRECT CONNECTION CABLES	Calbes kit 1,8mt VGA (VGA 1,8mt / USB 1,8mt)	
	Calbes kit 1,8mt DVI (DVI 1,8mt / USB 1,8mt)	
	Calbes kit 7,5mt VGA (VGA 10mt / USB 7,5mt) > note 2	
	Calbes kit 7,5mt DVI (DVI 10mt / USB 7,5mt) > note 2	
	Calbes kit 10mt VGA (VGA 10mt / USB 11mt amplified) > note 2	
	Calbes kit 10mt DVI (DVI 10mt/ USB 11mt amplified) > note 2	
	Extension cable for RS232 touch-screen interface (DB9M/DB9F) 1,8mt	
WARRANTY EXTENSION	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	<p>1: Usage of the serial interface exclude the USB interface operation for touch-screen</p> <p>2: With kit cables 7,5mt, USB 1.1 standard is ensured</p> <p>With kit cables 11mt, USB 2.0 standard is ensured; USB cable has an amplified signal repeater in the middle;</p> <p>Repeater has dimensions of (mm) 32x17x90; distance of the repeater from the edges is 5mt and 6mt</p>
--------------	---



TECHNICAL SPECIFICATIONS	
Case	Panel mount
Front panel	Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C 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
Frontal access interfaces	1 x USB 2.0 (Type-A)
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 for LCD ≤ 15,6", 0° ÷ +45°C for LCD ≥ 17" • Storage temperature: -5° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus (508)
Standard warranty	12 months • Warranty management by ASEM headquarters

DIMENSIONS (mm)



LCD TFT	A	B	C	D	E	F	G	H	Weight (kg)
8,4"	250	210	230	190	10	45	19	5	3,1
10,4"	300	245	280	225	10	45	19	5	3,9
12,1"	335	270	315	250	10	45	19	5	4,6
15"	390	315	370	295	10	45	19	6	5,3
15,6"	430	275	410	255	10	45	19	6	6,0
17"	455	355	435	335	10	45	21	6	6,7
18,5"	500	320	480	300	10	45	19	6	7,3
19"	490	388	470	368	10	45	21	6	7,3
21,5"	579	367	559	347	10	45	23	6	8,4

