



Industrial Automation - Products & Configurations

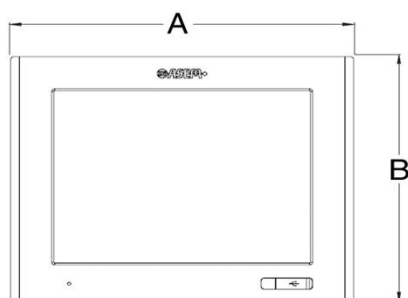
MH084 MONITOR		
Basic configuration		LCD TFT 8,4" • touch-screen with USB I/F • aluminum front panel • 24V DC power supply not isolated • Video input VGA and DVI-D • 12 months warranty
DISPLAY	MH084 • 8,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 450 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/60°:80°	
	MH104 • 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°	
	MH121 • 12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ): 65°:65°/45°:65°	
	MH121X • 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°	
	MH150 • 15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 400 cd/m2 • Viewing angle: L:R/U:L (typ): 80°:80°/65°:80°	
	MH156 • 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°	
	MH170 • 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°	
	MH185 • 18,5" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 170°/160°	
	MH190 • 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°	
	MH215 • 21,5" LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 178°/178°	
TOUCH-SCREEN	GFG > note 1	
	No Touch-Screen	-
	8,4" Touch-Screen • 5 wires resistive technology • USB I/F	no
	10,4" Touch-Screen • 5 wires resistive technology • USB I/F	no
	12,1" Touch-Screen • 5 wires resistive technology • USB I/F	yes
	15" Touch-Screen • 5 wires resistive technology • USB I/F	yes
	15,6" Touch-Screen • 5 wires resistive technology • USB I/F	no
	17" Touch-Screen • 5 wires resistive technology • USB I/F	yes
	18,5" Touch-Screen • 5 wires resistive technology • USB I/F	no
	19" Touch-Screen • 5 wires resistive technology • USB I/F	no
21,5" Touch-Screen • 5 wires resistive technology • USB I/F	no	
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 2	
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)	
	Calbes kit 7,5mt DVI (DVI 10mt / USB 7,5mt)	
	Calbes kit 10mt VGA (VGA 10mt / USB 11mt amplified)	
	Calbes kit 10mt DVI (DVI 10mt/ USB 11mt amplified)	
	Extension calbe 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		
1: Glass Film Glass (GFG) touch-screen option: see pg.147 for the differences with standard touch-screen configuration		
2: Usage of the serial interface exclude the USB interface operation for touch-screen		
3: 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		



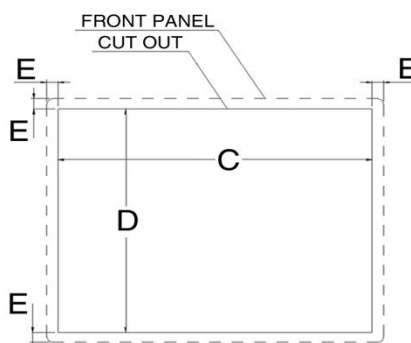
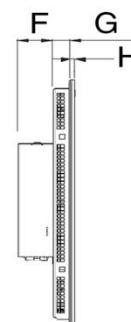
TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section below
Front panel	Aluminum • ASEM logo sticker
Touchscreen	5 wires resistive technology • on board controller • USB I/F (RS232 optional)
Frontal protection	IP65
Power supply	DC Input voltage 18÷32V 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)
Standard warranty	12 months • Warranty management by ASEM headquarters

DIMENSIONS (mm)

FRONT VIEW



SIDE VIEW



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

