



HMI

New

Human Machine Interface

Human Machine Interface

- 4.3", 7" & 10.1" with color TFT display options with & without Ethernet model
- CPU - Cortex-M7, 600MHz, 1284 DMIPS
- RAM - 32 MB , ROM - 32 MB (Without Ethernet model) & 64 MB (With Ethernet model)
- 4 wire Resistive display with > 1,000,000 touch
- Builtin RTC with accuracy of ± 2 Sec/Day
- Inbuilt picture library with high resolution images.
- Data logging function available via Internal Memory, USB Host, SD Card.
- Recipe, Alarms, Trends & Password management.
- Application upload/download function available via USB Slave, USB Host, SD Card, Serial & Ethernet port.
- Shock & Vibration protection as per IEC Standard
- Operating temperature range: 0 to +50 °C, Storage temperature range: -20 to +60 °C
- IP 65 protection for front panel with Class 2 Pollution Degree
- CE, UKCA, RoHS Complied



Ordering Information

Cat. No.	Description
HM104B-0000	4.3" TFT Display, 24VDC, 2 Serial ports(1 RS232/RS485, 1 RS422/RS485), 1 USB Slave, 1 USB Host
HM104B-N000	4.3" TFT Display, 24VDC, 2 Serial ports(1 RS232/RS485, 1 RS422/RS485), 1 USB Slave, 1 USB Host, 1 SD Card Slot, 1 Ethernet
HM107B-0000	7" TFT Display, 24VDC, 2 Serial ports (1 RS232/RS485, 1 RS232/RS422/RS485), 1 USB Slave, 1 USB Host
HM107B-N000	7" TFT Display, 24VDC, 2 Serial ports (1 RS232/RS485, 1 RS232/RS422/RS485), 1 USB Slave, 1 USB Host, 1 SD Card Slot, 1 Ethernet
HM110B-0000	10.1" TFT display, 24VDC, 2 Serial ports (1 RS232/RS485, 1 RS232/RS422/RS485), 1 USB Slave, 1 USB Host
HM110B-N000	10.1" TFT display, 24VDC, 2 Serial ports(1 RS232/RS485, 1 RS232/RS422/RS485), 1 USB Slave, 1 USB Host, 1 SD Card Slot, 1 Ethernet

Human Machine Interface



Cat. No.	HM104B-0000	HM104B-N000
Parameters		
Supply voltage (Φ)	24 V DC	
Nominal supply voltage range	(- 15% to + 20%) (20.4 to 28.8 VDC)	
Power consumption (max.)	4 W	4.5 W
Over voltage category	1 in accordance with IEC/EN 60664-1	
Backup battery	3V lithium battery	
Backup battery life	5 years or more at 25°C	
Panel size	4.3"	
Panel type	65536 color TFT LCD	
Resolution	480 x 272 pixels	
Brightness	440 Cd/m ²	
Backlight life	50000 hours	
CPU	Cortex-M7 (600MHz) 1284 DMIPS (2.14DMIPS/M Hz)	
ROM	32 MB	64 MB
RAM	32 MB	32 MB
Touch screen	4 wire resistive > 1,000,000 operated	
RTC	Builtin	
Accuracy of the real-time clock	Typ. \pm 2 min/month	
COM port 1	RS232/485 (Supporting Flow Control RTS-CTS)	
COM port 2	RS422/RS 485	
USB host	1 (2.0)	
USB slave	1 (2.0)	
Ethernet	No	1-Port
SD card slot	No	Yes
Operating temperature	0°C to +50°C	
Storage temperature	-20°C to +60°C	
Humidity	10% to 90% RH [0°C - 40°C] and 10% to 55% RH [41°C - 50°C]	
Maximum operating altitude	Operation: 2000 m ; Transport: 0 - 3000 m	
Pollution degree	2	
Degree of protection	IP65 (For Front Panel)	
Mounting	Flush with screw clamp	
Mounting position	Horizontal	
Panel cutout dimensions (L) x (W) in mm	118.8 X 92.8	
Dimensions (L) x (W) in mm	136 X 102 X 36.5	
Terminal type	Pluggable Euro type terminal	
Screw tightening torque	0.5 N.m. (4.4 lb.in)	
Approvals		

Environmental Compliance

Shock	IEC 60068-2-27
Vibration	IEC 61131-2

Human Machine Interface



Cat. No.	HM107B-0000	HM107B-N000
Parameters		
Supply voltage (Φ)	24 V DC	
Nominal supply voltage range	(- 15% to + 20%) (20.4 to 28.8 VDC)	
Power consumption (max.)	6 W	6.5 W
Over voltage category	1 in accordance with IEC/EN 60664-1	
Backup battery	3V lithium battery	
Backup battery life	5 years or more at 25°C	
Panel size	7"	
Panel type	65536 color TFT LCD	
Resolution	800 x 480 pixels	
Brightness	400 Cd/m2	
Backlight life	50000 hours	
CPU	Cortex-M7 (600MHz) 1284 DMIPS (2.14DMIPS/M Hz)	
ROM	32 MB	64 MB
RAM	32 MB	32 MB
Touch screen	4 wire resistive > 1,000,000 operated	
RTC	Builtin	
Accuracy of the real-time clock	Typ. \pm 2 min/month	
COM port 1	RS232/485 (Supporting Flow Control RTS-CTS)	
COM port 2	RS232/RS422 /RS 485	
USB host	1 (2.0)	
USB slave	1 (2.0)	
Ethernet	No	1-Port
SD card slot	No	Yes
Operating temperature	0°C to +50°C	
Storage temperature	-20°C to +60°C	
Humidity	10% to 90% RH [0°C - 40°C] and 10% to 55% RH [41°C - 50°C]	
Maximum operating altitude	Operation: 2000 m ; Transport: 0 - 3000 m	
Pollution degree	2	
Degree of protection	IP65 (For Front Panel)	
Mounting	Flush with screw clamp	
Mounting position	Horizontal	
Panel cutout dimensions (L) x (W) in mm	190 X 135	
Dimensions (L) x (W) in mm	207 X 152.3 X 36.5	
Terminal type	Pluggable Euro type terminal	
Screw tightening torque	0.5 N.m. (4.4 lb.in)	
Approvals	  	

Environmental Compliance

Shock	IEC 60068-2-27
Vibration	IEC 61131-2

Human Machine Interface



Cat. No.	HM110B-0000	HM110B-N000
Parameters		
Supply voltage (Φ)	24 V DC	
Nominal supply voltage range	(- 15% to + 20%) (20.4 to 28.8 VDC)	
Power consumption (max.)	6.5 W	7 W
Over voltage category	1 in accordance with IEC/EN 60664-1	
Backup battery	3V lithium battery	
Backup battery life	5 years or more at 25°C	
Panel size	10.1"	
Panel type	65536 color TFT LCD	
Resolution	1024 x 600 pixels	
Brightness	400 Cd/m ²	
Backlight life	50000 hours	
CPU	Cortex-M7 (600MHz) 1284 DMIPS (2.14DMIPS/M Hz)	
ROM	32 MB	64 MB
RAM	32 MB	32 MB
Touch screen	4 wire resistive > 1,000,000 operated	
RTC	Builtin	
Accuracy of the real-time clock	Typ. \pm 2 min/month	
COM port 1	RS232/485 (Supports HW flow control)	
COM port 2	RS232/RS422/RS485	
USB host	1 (2.0)	
USB slave	1 (2.0)	
Ethernet	No	1-Port
SD card slot	No	Yes
Operating temperature	0°C to +50°C	
Storage temperature	-20°C to +60°C	
Humidity	10% to 90% RH [0°C - 40°C] and 10% to 55% RH [41°C - 50°C]	
Maximum operating altitude	Operation: 2000 m ; Transport: 0 - 3000 m	
Pollution degree	2	
Degree of protection	IP65 (For Front Panel)	
Mounting	Flush with screw clamp	
Mounting position	Horizontal	
Panel cutout dimensions (L) x (W) in mm	255 X 185	
Dimensions (L) x (W) in mm	273 X 203 X 38	
Terminal type	Pluggable Euro type terminal	
Screw tightening torque	0.5 N.m. (4.4 lb.in)	
Approvals		

Environmental Compliance

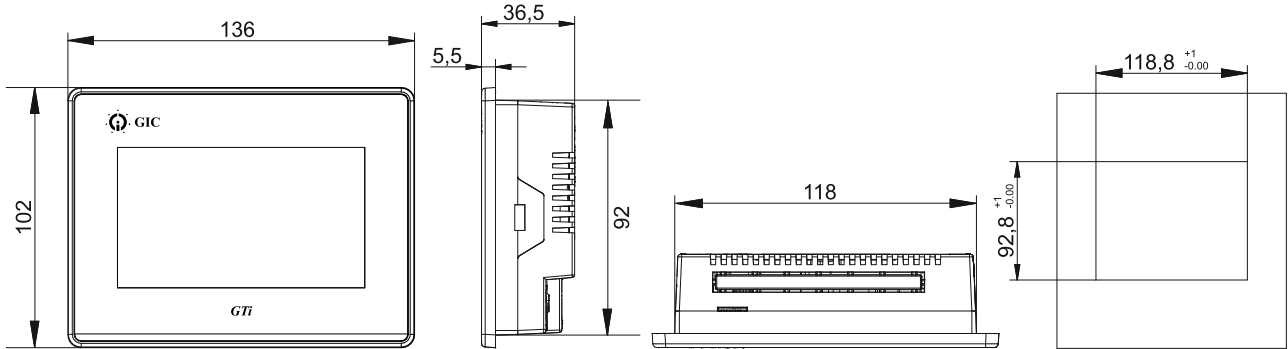
Shock	IEC 60068-2-27
Vibration	IEC 61131-2

Human Machine Interface

MOUNTING DIMENSIONS (mm)

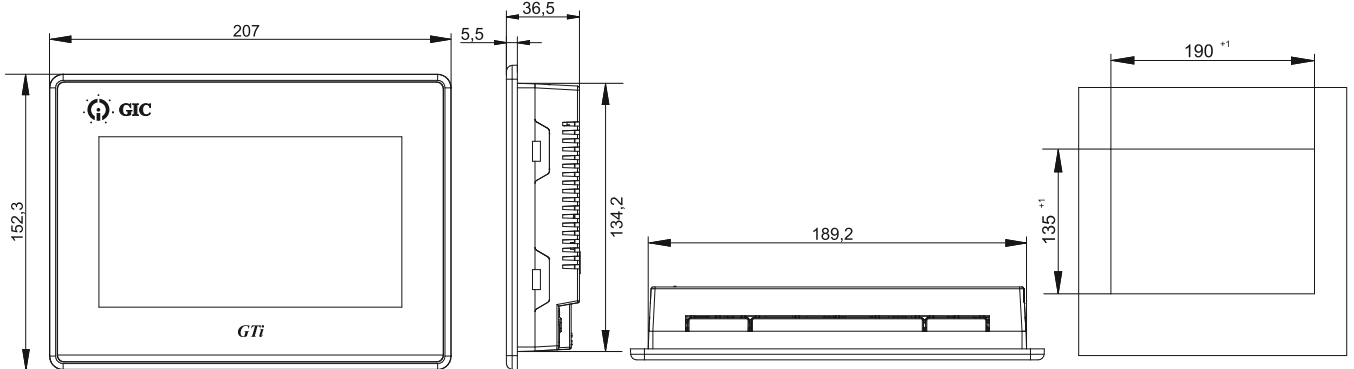


HM104B-0000/ HM104B-N000



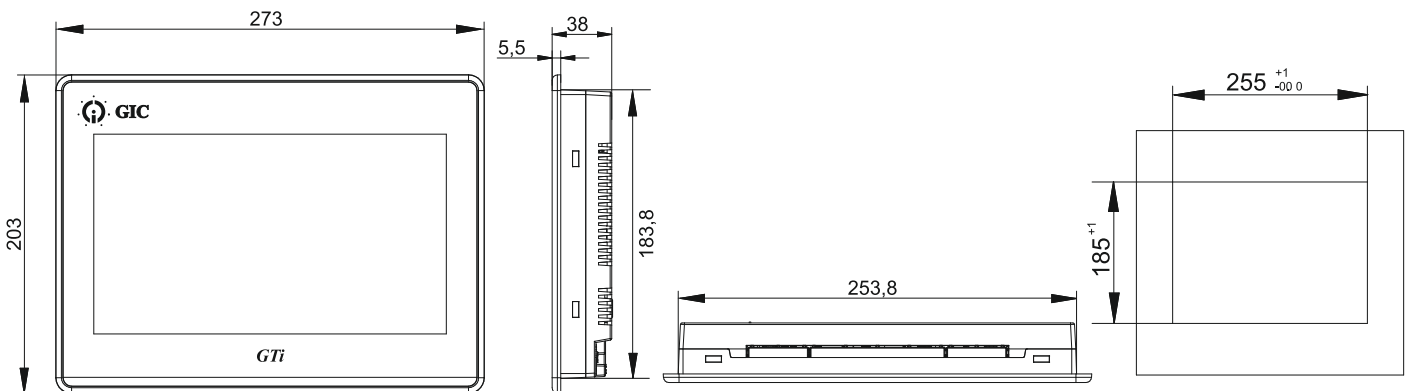
(Panel Cutout)

HM107B-0000/ HM107B-N000



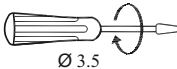

(Panel Cutout)

HM110B-0000/ HM110B-N000



(Panel Cutout)

TERMINAL TORQUE & CAPACITY

 Ø 3.5	0.5 N.m (4.4 Lb.in)
	1 x 2.5 mm ² Solid Wire/Stranded
AWG	1 x 28 to 12