All-in-One 10.1" TFT Touch WBGcMT3103

- 10.1" TFT LCD graphic display 1024 x 600 with LED backlighting
- Fanless cooling system
- COM2 / COM3 RS485 2-wire supports MPI 187.5 K
- PCB coating process ensures high reliability and corrosion resistance in harsh environments.
- Galvanic isolation of supply and system voltage
- CAN bus supports CANopen, CAN bus 2.0A/2.0B and SAE J1939
- IP65 on the front, NEMA4 compliant
- WiFi 802.11 b/g/n
- Integrated 4 GB flash memory and RTC
- EasyAccess 2.0 license included

https://www.wachendorff-prozesstechnik.de/en/WBGcMT3103

Description

The all-in-one HMI WBGcMT3103 from Weintek with its 32-bit RISC Cortex-A9 processor with 1 GHz clock frequency enables high performance in the visualization of data. The WBGcMT3103 not only works like an ordinary HMI, but is also a cMT server. This makes it possible to use the cMT Viewer app on a panel PC (WBGcMTiPC10/15) or a display (WBGcMTiV5) to additionally monitor and control the visualization of the WBGcMT3103.
The IIoT standard protocols OPC UA and MQTT enable you to communicate between your machines/systems and the higher-level control/management systems. This ensures simultaneous monitoring and control of your transmission data. The integrated license for the EasyAccess2.0 remote access service enables you to visualize the HMI on end devices (such as PC, smartphone and tablet) at an external location. With EasyAccess2.0, you can access devices in the network via the WBGcMT3702 using the "Path Throug" method (1 device at a time)

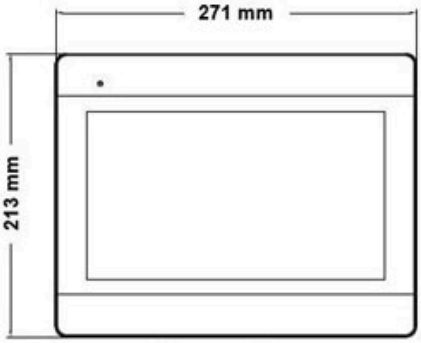
Product details

Display:	Size: 10.1" TFT Resolution: 1024 x 600 pixels Brightness: 350 cd/m² Contrast: 500 : 1 Backlight: LED Backlight life: >50,000 hours Colors: 16.7 million LCD viewing angle (up/down/left/right): 60/60/70/70
Touch display:	Type: 4-wire analog resistive. Accuracy: Active range length (X) ±2 %, width (Y) ±2 %
Memory:	Flash: 4 GB RAM: 1 GB
Processor:	32 bit RISC Cortex-A9 1 GHz
Interfaces:	SD card slot: No USB host: 1x USB 2.0 Ethernet: LAN: 10/100/ Base-T WiFi: IEEE 802.11 b/g/n 802.11b: max. 19.25 dBm 802.11g: max. 13.74 dBm 802.11n: max. 15.01 dBm COM port: Connection A: COM2 RS485 2-/4-wire, COM3 RS485, CAN bus Connection B: COM1/COM3 RS232 (only use Tx & RX (not RTS/CTS) for COM1 RS232 if COM3 RS232 is used at the same time) RS485 isolation: No CAN bus: Yes HDMI: No Audio Output: No Video Input: No
Real-time clock:	Integrated real-time clock RTC
Power supply:	Input voltage: 10.5 VDC to 28 VDC Galvanic isolation (input voltage from system voltage): integrated Current consumption: 2A at 12 VDC, 1 A at 24 VDC Dielectric strength: 500 VAC (1 min.) Insulation resistance: >50 MOhm at 500 VDC Shock resistance: 10 Hz to 25 Hz (X,Y, Z direction 2 G 30 minutes)
Printed circuit board coating:	Yes, PCB
Housing:	Plastic housing
Dimensions (WxHxD):	271 mm x 213 mm x 36.4 mm Panel cut-out: 260 mm x 202 mm
Weight:	approx. 1.07 kg
Fastening:	Panel mounting
Protection class:	NEMA4 / front IP65
Ambient temperature:	Operation: 0 °C to +50 °C. Storage: -20 °C to +60 °C. Relative humidity: 10 % to 90 % (non-condensing)
Certificates:	CE
Software:	EasyBuilder Pro
Manufacturer:	Weintek Labs, Inc

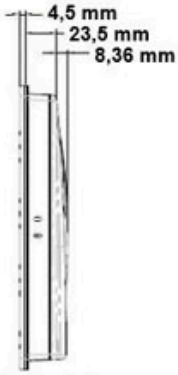
Drawings

Dimensions

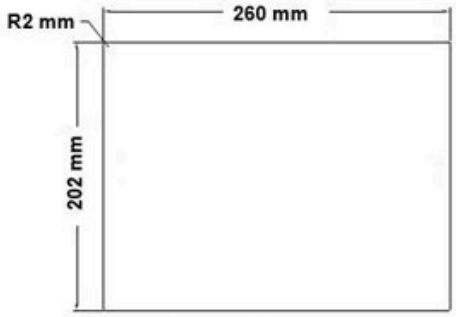
Draufsicht



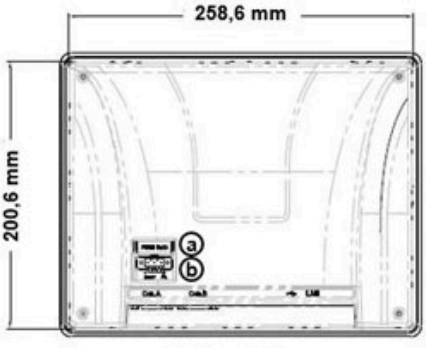
Frontansicht



Seitenansicht

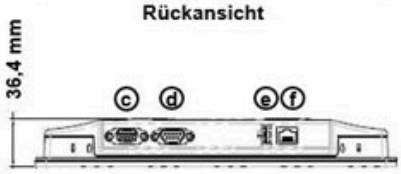


Schalttafelausschnitt



Rückansicht

a	Sicherung
b	Anschluss Spannungsversorgung
c	Anschluss A: COM2 RS-485 2-/4-Draht, COM3 RS-485 2-Draht, CAN Bus
d	Anschluss B: COM1 RS-232, COM3 RS-232
e	USB Host
f	LAN



Ansicht von unten

Drawings

PIN assignment

Con.B: COM1 / COM3 [RS232], 9 Pin, Male, D-sub

PIN#	COM1 [RS232]	COM3 [RS232]
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD

Con.A: COM2 / COM3 [RS485]/ CAN Bus, 9 Pin, Female, D-sub

PIN#	COM2 [RS485]2W	COM2 [RS485]4W	COM3 [RS485]]	CAN Bus
1	Data-	Rx-		
2	Data+	Rx+		
3		Tx-		
4		Tx+		
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

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