



Applications:

- Plastic extrusion
- Plastic injection
- Heat treatment
- Metal

Main characteristics:

- Control Panel with integrated HMI
- One programming environment.
- 10.4", 12.1 and 15" color display, resistive touch screen
- IP65 front panel protection level
- Wide range of communication ports and protocols

Code	According to model (see order code)
Brief description	Control Panel with display and resistive touch screen

PROFILE

The AXM view Control Panel lets you display, set, and manage all of the machine or system automation data. The operator uses a color touch screen. Depending on the model, the screen size can be 10.4", 12.1 or 15". The use of an Intel ATOM low-consumption processor, plus an extremely efficient design (no fans or moving parts), eliminates all maintenance. The processor can run at either 1 GHz or 1.3 GHz.

The Control Panel has several communication ports (USB, Ethernet, RS232, RS485 and CAN) and different protocols GDNET (Master), Modbus TCP/IP (Master\Slave), CANopen (Master), Modbus RTU (Master/Slave)).

The 2 GB internal mass memory can be expanded with SD cards.

Programming is done with a single development tool: GF_Project VX, which ensures complete and fast management of application software by means of the five standard IEC61131-3 languages and a powerful graphic editor.

In combination with I/Os, AXM view completes the management and control of process and automation. It manages sequences and work processes, and sets and displays data and connectivity.

In addition, there is a series of specific application templates, user-friendly and easily customizable, for the plastics and heat treatment industries.

Architecture

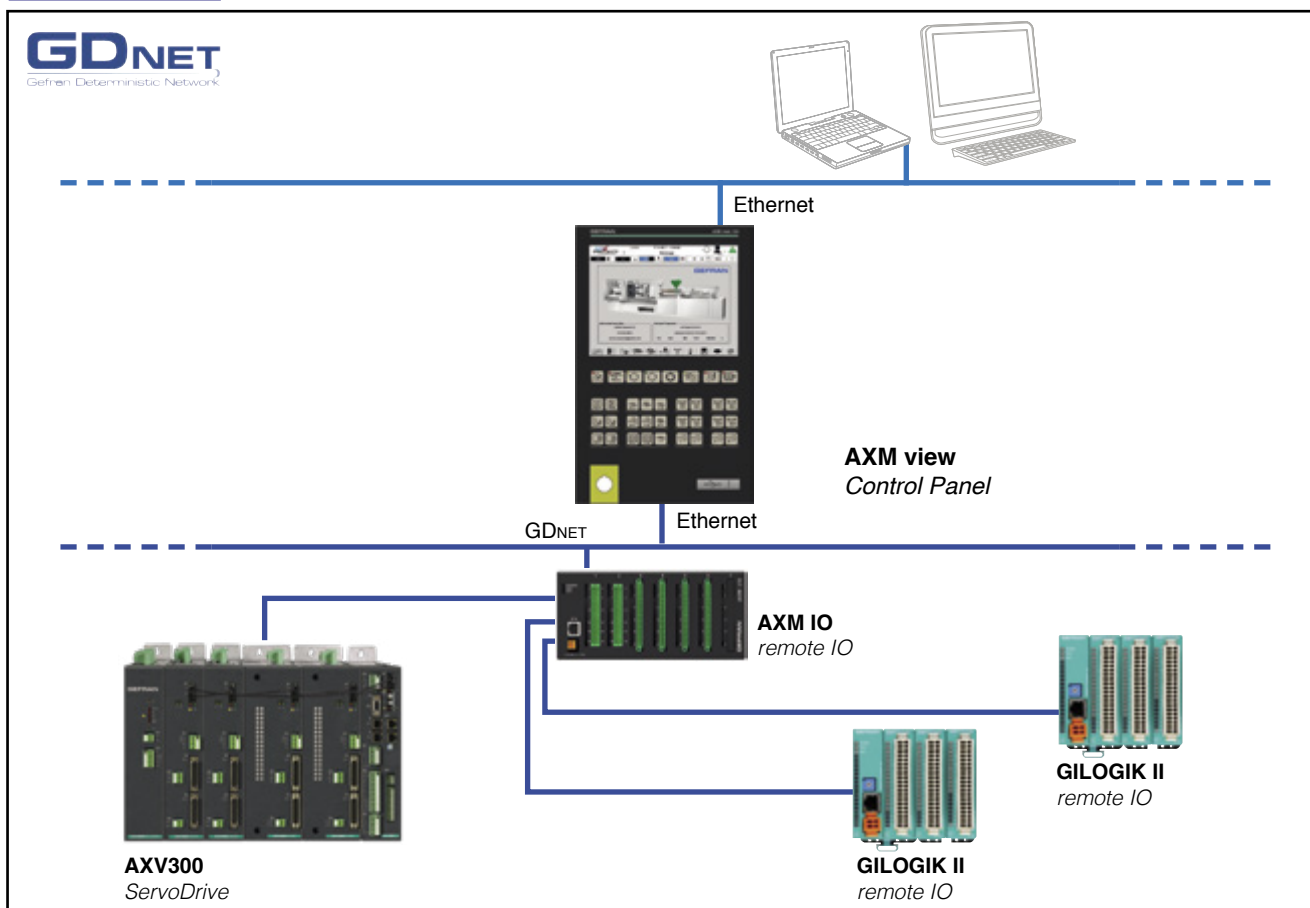


Figure 1 - Ethernet - GDNET architecture

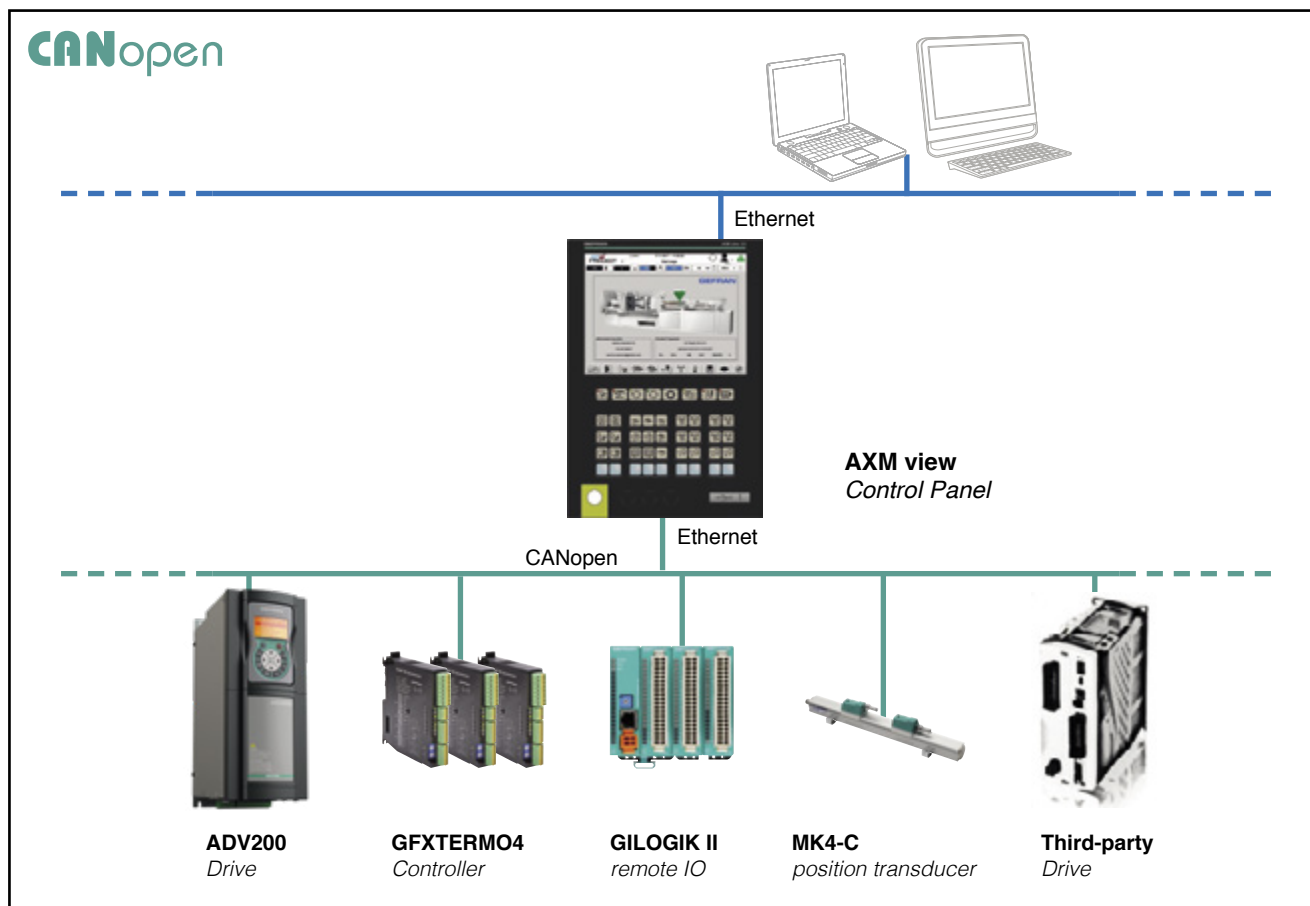


Figure 2- Ethernet - CAN (CANopen) architecture

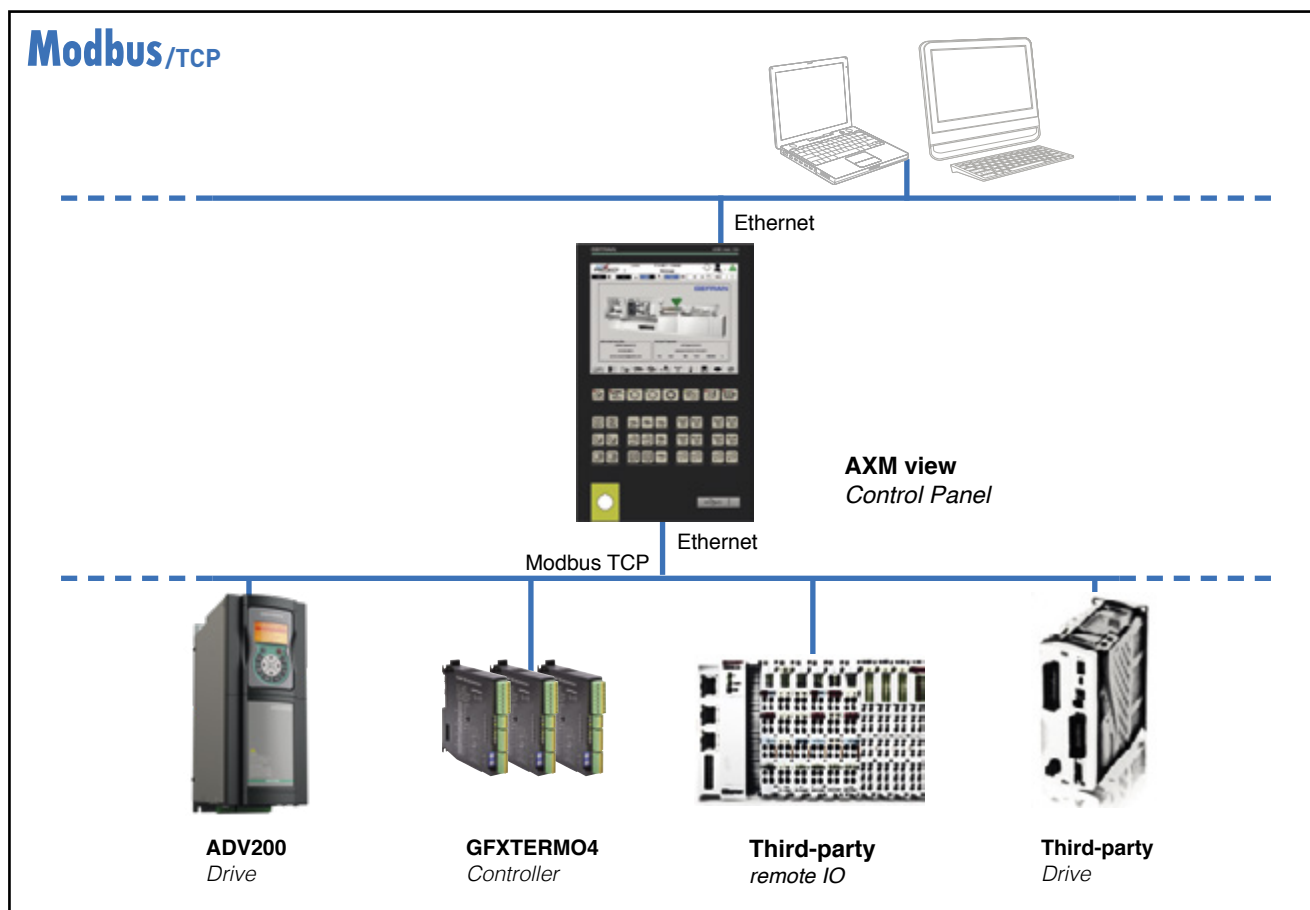


Figure 3 - Ethernet – Modbus TCP architecture

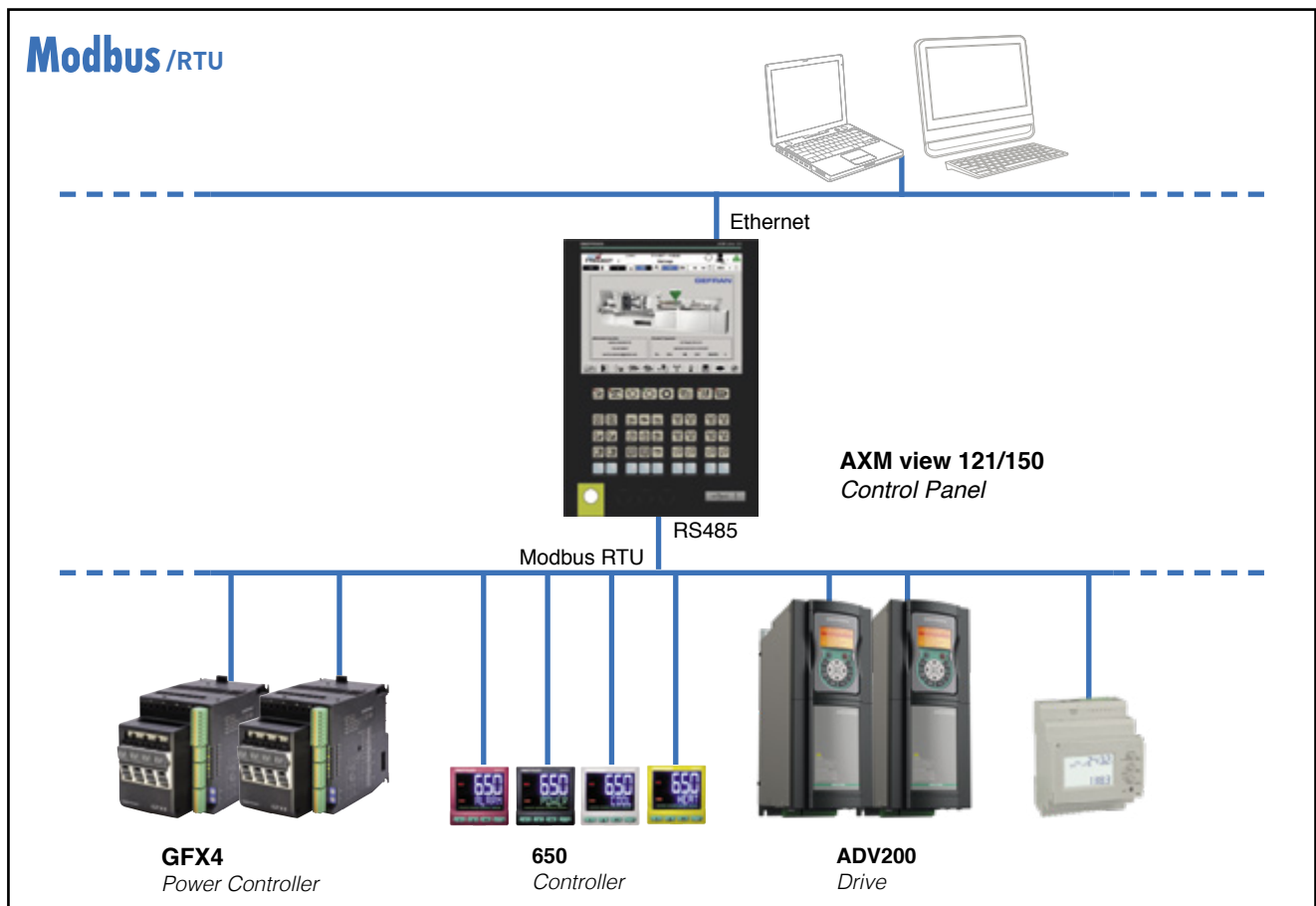


Figure 4 - Example of Ethernet - Modbus RTU (RS485) architecture

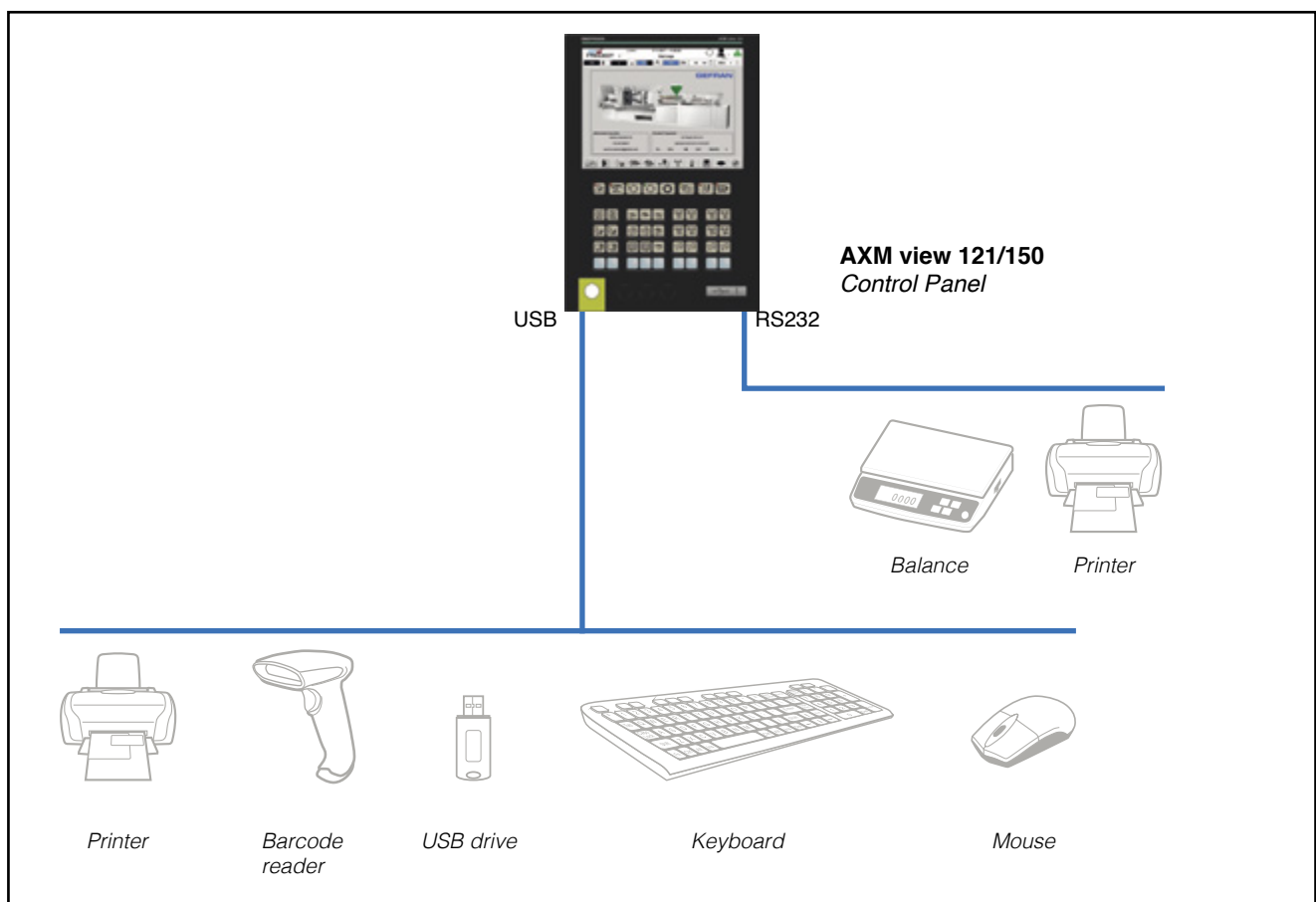


Figure 5 - Example with USB and RS232 ports

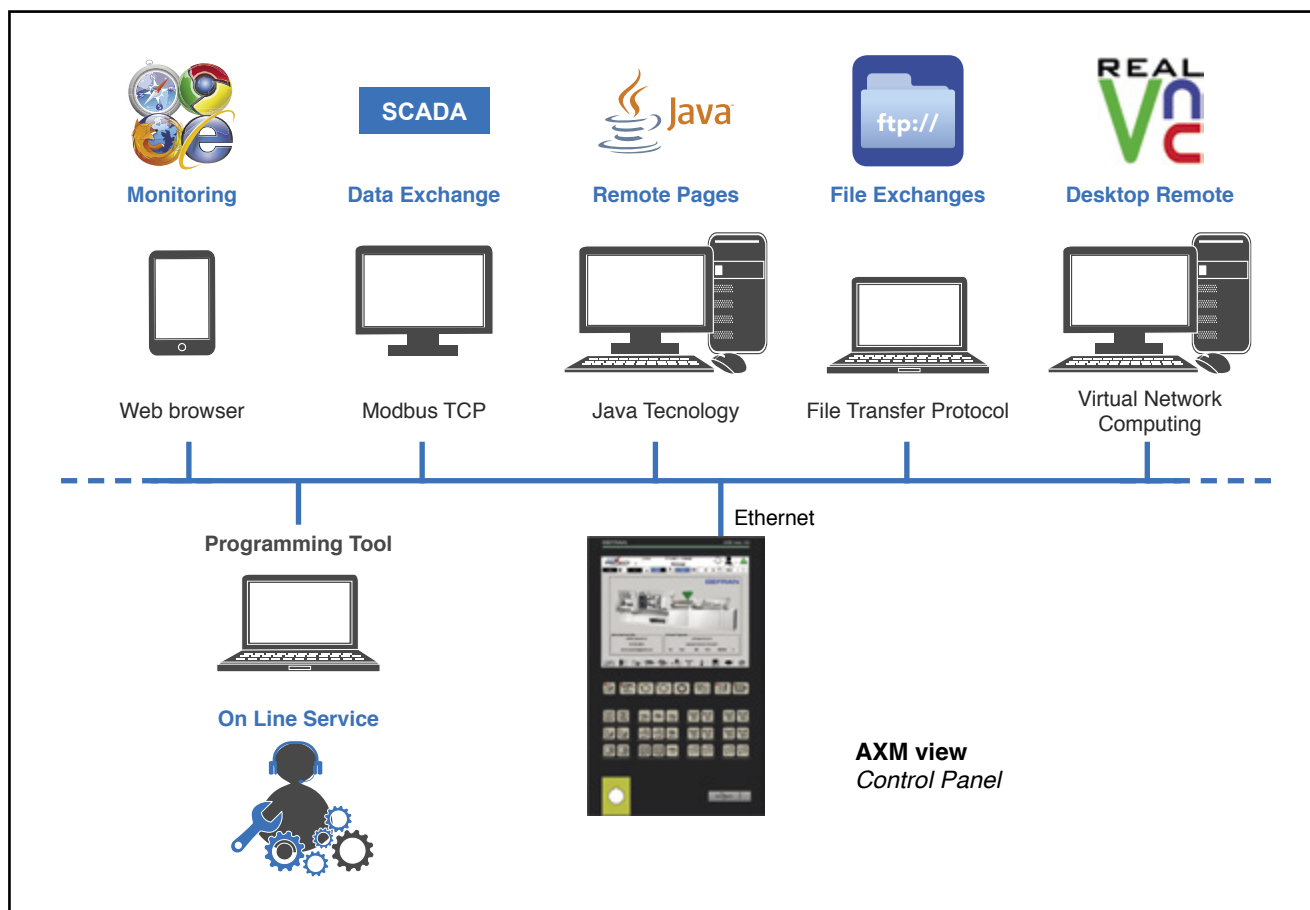


Figura 6 - Examples of remote services

Technical data

		AXM view 104	AXM view 121	AXM view 150
POWER SUPPLY	Operating voltage	24 VDC \pm 25%		
	Current draw (at 24 VDC)	600 mA max	900 mA max	850 mA max
	Power dissipation	15 W max	22 W max	26.5 W max
	Protections	Polarity inversion Short circuit		
	Connection	3-pin polarized removable connector Screw terminals, max cable section 2.5 mm ²		
CONNECTIONS	Ethernet port (ETH)	Number of channels: 2 max Connector: RJ45 Velocity: 10 / 100 / 1000 Mbit/s Signals: green connection LED, yellow data LED		
	KEY & LED port	Connector: RJ45 Standard: USB2.0		
	RS-232 port (AXM view 121 and AXM view 150 models only)	Connector: DB9 M Velocità: 1.2kbit/s...115kbit/s		
	RS-485 port (AXM view 121 and AXM view 150 models only)	Optically isolated Connector: DB9 M Speed: 9 kbit/s ... 19 kbit/s Terminations and polarization: internal, selectable with jumper		
	CAN port (AXM view 121 and AXM view 150 models only)	Optically isolated Connector: DB9 M Speed: 20, 50, 100, 125, 250, 500, 1000 kbit/s, default 500 kbit/s Termination: internal, selectable with jumper		
	USB port	Number of ports: 2 max Connector: type A Standard: USB 2.0 Protection: 500mA overload		
COMMUNICATION PROTOCOLS	Ethernet	FTP (File Transfer Protocol) Modbus TCP/IP Master/Slave GDNET Master		
	CAN	CANopen Master		
	Modbus	Modbus RTU Master/Slave		
DISPLAY	Size (diagonal)	10.4"	12.1"	15"
	Format	4:3		
	Pixel resolution	800 x 600		1024 x 768
	Screen area (L x H)	211.2 x 158.4 mm	246.0 x 187.5 mm	304.1 x 228.1 mm
	Colors	256 K / 18 bit		
	Luminosity	400 cd/m ²	450 cd/m ²	500 cd/m ²
	Contrast	500:1	1500:1	1500:1
	Backlighting	White LEDs life 30,000 hours @ 25 °C	White LEDs life 50,000 hours @ 25 °C	White LEDs life 50,000 hours @ 25 °C
	Visual angle	Horizontal: 70° - 70° Vertical: 50° - 60°	Horizontal: 89° - 89° Vertical: 89° - 89°	Horizontal: 70° - 85° Vertical: 70° - 85°
CONFIGURATION ELEMENTS	Access to software procedures	16-position rotary switch		
	Touch screen calibration	Via software on product		
CONTROL ELEMENTS	Touch screen	4-wire resistive technology		

		AXM view 104	AXM view 121	AXM view 150
KEYBOARD	Keys	35 N.O.	44 N.O.	44 N.O.
	External keys	4 N.O.		
	Customizable symbols keys	NO	9 with external label	9 with external label
	LEDs green	1		
	LEDs yellow	2		
	LEDs red	4		
	Electromechanical buttons	NO	3 prepared holes Ø 22 mm	3 prepared holes Ø 22 mm
	Emergency button	1 Ø 22 mm (NON INCLUSO)		
VIEWING ELEMENTS	Diagnostics	PW LED (yellow): power supply on RN LED (green): PLC program state LED E1 (red): HW Watchdog state LED E2 (red): PLC program error		
MICROPROCESSOR	Type and frequency	ATOM E640 1 GHz ATOM E660, 1.3 GHz		
MEMORY	System	512 MB, DRAM type DDR II		
	Mass	2 GB Flash memory		
	Mass extension	SD Card Slot *		
AMBIENT CONDITIONS	Operating temperature	0 ... +55 °C (as per IEC 68-2-14)		
	Storage temperature	-20 ... +70 °C (as per IEC 68-2-14)		
	Relative humidity	max 95% RH non condensing (as per IEC 68-2-3)		
	Vibrations	5 to 9 Hz: sine constant 3.5 mm 10 to 150 Hz: sine acceleration 1G		
ASSEMBLY		Built-in, in control boards or panels		
PROTECTION LEVEL		IP 65 on front panel (as per IEC 68-2-3)		
WEIGHT		2.100 kg	2.700 kg	3.500 kg
CE STANDARDS	EMC (electromagnetic compatibility)	Conforms to Directive 2014/30/EU EN61131-2: Programmable controllers Part 2: Equipment requirements and tests.		

* SD card not supplied. Available as accessory

Dimensions and spaces required for installation

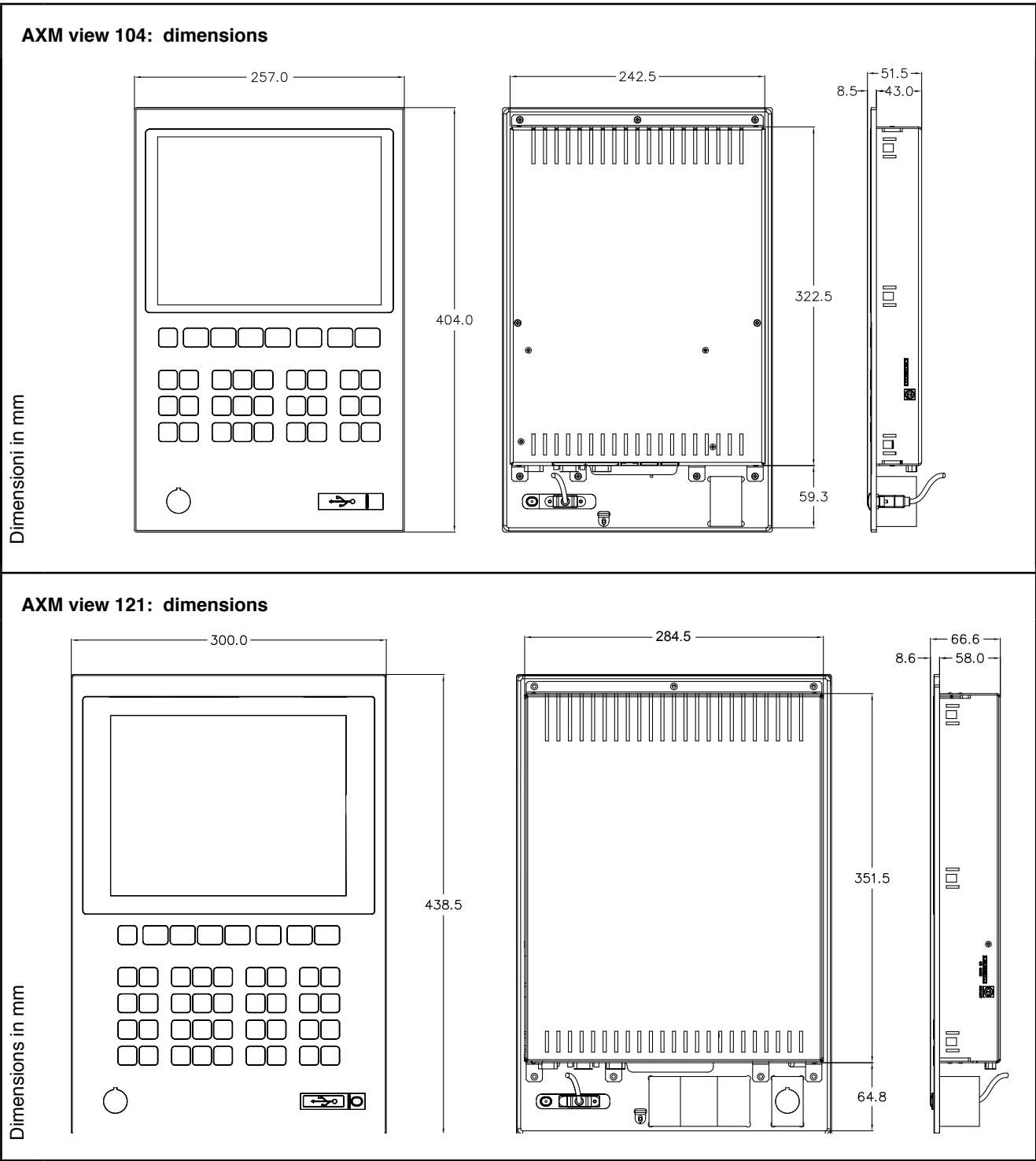


Figure 8 - Dimensions AXM view 104 / 121

AXM view 150: dimensions

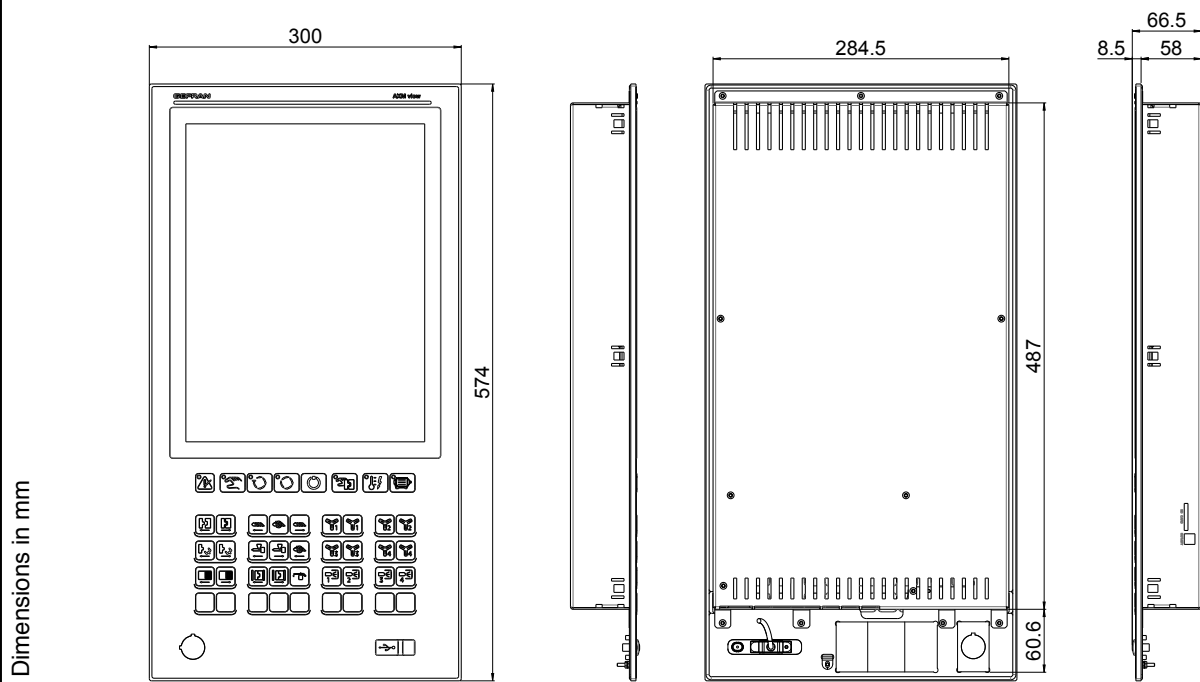


Figure 9 - Dimensions AXM view 150

Order codes

AXM view 104 with integrated control panel.

10.4" color display, resistive touch screen, Atom 1 GHz, 512 MB RAM, 2 GB flash memory

Code	Model Number	Description
F071521	AXM view 104-35-20-E1-00-00	communication peripherals 2 x Ethernet (Modbus TCP, GDNet), 2 x USB, 1 x keyboard eKMxx

AXM view 121 with integrated control panel.

12.1" color display, resistive touch screen, Atom 1.3 GHz, 512 MB RAM, 2 GB flash memory

Code	Model Number	Description
F071425	AXM view 121-44-30-E1-S1-C1	communication peripherals 2 x Ethernet (Modbus TCP, GDNet), 2 x USB, 1 x keyboard eKMxx, 1 x RS232, 1 x RS485, 1 x CAN (CANopen)

AXM view 150 with integrated control panel.

15" color display, resistive touch screen, Atom 1.3 GHz, 512 MB RAM, 2 GB flash memory

Code	Model Number	Description
F074414	AXM view 150-44-30-E1-S1-C1	communication peripherals 2 x Ethernet (Modbus TCP, GDNet), 2 x USB, 1 x keyboard eKMxx, 1 x RS232, 1 x RS485, 1 x CAN (CANopen)

Accessories

Code	Model Number	Description
F072458	KIT_INSTA_AXM view	Installation kit (fastening blocks + ferrite + power supply connector)
F057777	SD_CARD1G	SD Card 1GB
F057679	USB_PEN1G	1 GB USB key
F028595	R-CAVETHX6	Cable ETHERNET cross L. = 6 m

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