



MP110 Series

EquinoxTM

Programmable Logic Controller (PLC) > MP110 Series

MP110 PLC Series provide faster, stable and cost effective solutions to your industrial automation requirements. You can develop complex logical applications by using its FBD programming interface. It also provides optimum solutions with integrated digital, analog and temperature inputs/outputs.

CPU Specifications

Processor Architecture : ARM Cortex M4	Memory 32-bit Float Count: 250
Memory Bit Count: 500	Memory 32-bit Long Count: 100
Memory 16-bit Word Count: 500	

Fast and Easy Programming

- IEC 61131-3 standard instructions
- Drag and drop programming with Function block diagram (FBD)
- Online viewing and real-time monitoring/controlling of process data
- Offline simulation
- Programming with standard USB cable or programming over TCP
- Remote firmware upgrade
- Axis control, PID, ON-OFF Control, Co-aging, HVAC and various pre-built Blocks Library
- View process data over web-server

Input / Output

- Digital Input: 4, optical isolation, (4 of them are fast counter inputs)
- Digital Output: 4, optical isolation, (4 of them are PWM or PTO output)
- Analog Input: 2, 0-20mA and 0-10V, Precision %1

Expansion Capability

128 Digital IO (64 DI, 64 DO)	48 Analog IO (16 AI, 16 RTD Input, 16 AQ)
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Integrated Communication Ports

- 1 port RS485, 3 kV ESD protection, Galvanic Isolation
- 1 port mini USB Type B

Communication Protocols

Master communication protocols: MODBUS RTU Slave communication protocols: MODBUS RTU

Real Time Clock and Calendar

Integrated real-time clock	Time keeping period 2 years @ 25 °C
RTC battery: CR2032 Lithium, battery life: 4 years	Hour shift: 60 seconds / Month @ 25 °C
Battery status/level reading functions	

Retentivity

- Protecting the last values of process data in case of power cut
- Retentive Memory Capacity: 1000 Blocks/RegisterType

Position Control Functions

- 4 channels Fast Counter input (Max. 100 kHz)
- 4 channels Pulse Width Modulation output (PWM – 200 kHz)
- 4 channels Pulse Train output (PTO – 50 kHz)

LED Signals and LCD

1 LED green POWER
1 LED green RUNNING STATUS
1 LED green COMMUNICATION TX

1 LED green COMMUNICATION RX
4 LED blue DIGITAL INPUT
4 LED blue DIGITAL OUTPUT

Environmental Conditions

Operating Temperature : -20 / +50 C
Storing Temperature : -25 / +70 C
Humidity : 5..95 RH

IP20
Operating Altitude: 0...2000 m


Electrical Wiring

On inputs and outputs, demountable terminal block with screw, (pitch 5.08 mm)
On 24V DC input , demountable terminal block with screw, (pitch 5.08 mm)

Supply

Supply Voltage: 9 36 VDC
Supply Current: 50 mA @ 24 VDC

MP 110 Series


	Product	Optional Interface	RS485	DO	DI	AI	Relay
	MP110		1	4	4	2	.
	MP110E	Ethernet	1	4	4	2	.
	MP110G	GSM	1	4	4	2	.

XIO110 Expansion Modules

Overview

More Flexible and Economic thanks to modular design not requiring Rack
CANBUS Based, 1 Mbit Speed, High Performance I/O BUS
Swappable when energised (Hot Swap)
Addressing by Dip Switch
Supply: 24 V DC (9-36V)
Operating Temperature: - 20.....+60
Compatibility: CE

XIO110 EXPANSION MODULES

	Product	DI	DO	AI*	AO*	Resistance Temperature (RTD)**	Relay
	XIO110.DI16	16
	XIO110.DO16	.	16
	XIO110.AI8	.	.	8	.	.	.
	XIO200.AO8	.	.	.	8	.	.
	XIO110.P6	6	.
	XIO110.R8 4 Channels Pulse Train output(PTO-50kHz)	8



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