

Applications



XM-PRO-10 PLC with IOT

Smart Crane | Leak Test Machine
PIM Machine Data | Collection on Shop Floor
Smart Campus | Smart Fabric Inspection



XM-17-ADT

AHU & Dehumidifier | Heating Oven | Metal Detection
Pressure Testing Machine | Smart Campus Monitoring
& Controlling System



XM-14-DT

Smart Store Application | Leak Test Machine
Drilling & Tapping | Hydraulic Press Machine
OEE (Overall Equipment Efficiency)



XM-14-DT-HIO

Drilling & Cutting | Band Saw Machine
AI Vision Systems | Equipment Length
Measuring System

Messung proudly presents a groundbreaking series of cost-effective PLC controllers, specifically engineered to deliver exceptional performance and user-friendly functionality. Unveiled as part of Messung's visionary 'Navonmesh-Make in India initiative,' XM-PRO 10 sets new standards as a compact, versatile, and fully customizable device. Its capabilities are further enhanced by a comprehensive selection of Local I/O and Remote I/O modules, ensuring effortless expandability.

A New Benchmark of Industrial Automation

Experience unrivaled versatility and future-proof performance with Messung's XM-PRO 10 PLC system. This cutting-edge automation solution sets new industry standards and caters to diverse sectors. Embrace innovation and propel your operations forward with the XM-PRO 10 PLC system.

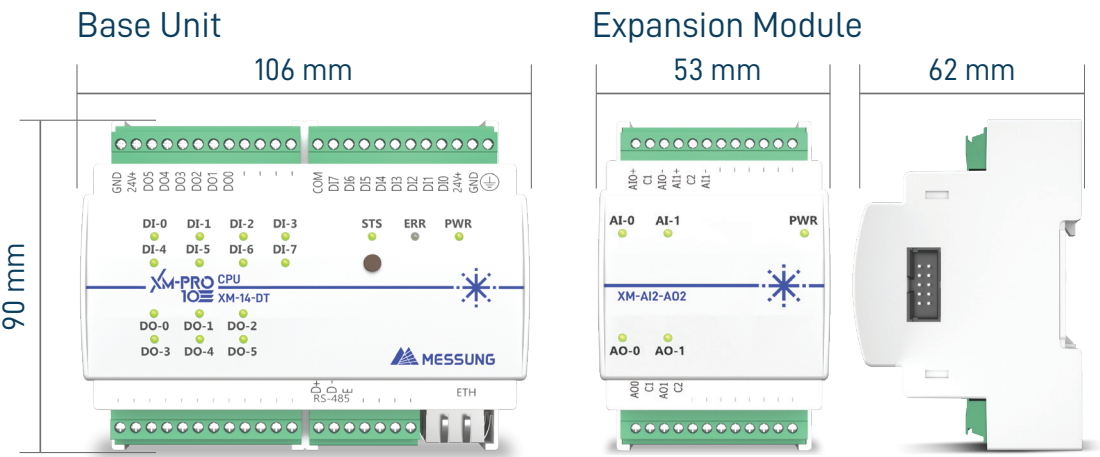
Local I/O Expansion Modules

XM-DI-16	16 channel Digital Input, 24VDC sink/source type, 2 groups of 8 channels, optically isolated
XM-DO-16T	16 channel Digital Output, 24VDC source type transistor output (500mA per channel) 1.5A per group 2 groups of 8 channels, optically isolated
XM-DI8-DO6T	8 channel Digital Input (24 VDC sink/source type) & 6 channel Digital Output (24 VDC Source type). Transistor output (500mA per output) 1.5A per group.
XM-AI2-AO2	2 channel Analog Input and 2 channel Analog Output, 12bit (0-10v/0-20mA/4-20mA)
XM-UI4-UO2	4 channel Universal Input (Dry contact, 0-10V/0-20mA/4-20mA, Resistance PT100, PT1000, NTC) 2 channel Universal Output (12VDC) source type transistor output (100mA, 0-10VDC, 0-20mA)

Remote I/O Modules

MOD-DI-8	8 channel Digital Input, 24VDC sink/source type, 2 groups of 4 channels
MOD-DO-16R	16 channel Relay Output, (250VAC-2A/30VDC-2A), 24VDC, 2 of 8 output channels
MOD-AI-4	4 channel Analog Input, 12bit (0-10v/0-20mA/4-20mA)
MOD-AO-4	4 channel Analog Output, 12bit (0-10v/4-20mA/0-20mA)

Dimensional Details



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AUTOMATION & CONTROLS
WORKPLACE TECHNOLOGY

MESSUNG industrial automation & controls

navonmesh
A Make in India Initiative

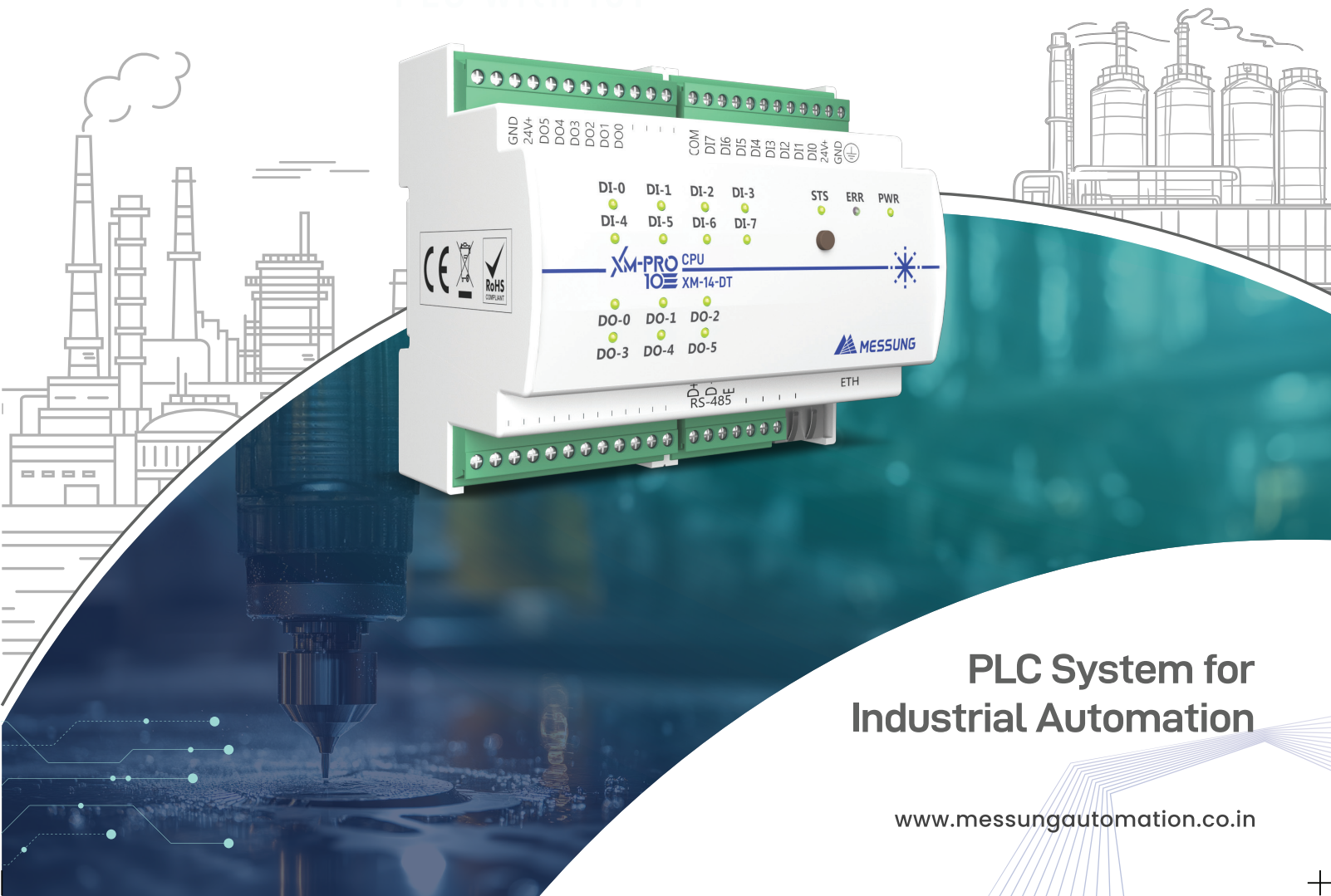
THE LITTLE SMART LOGIC BOX

Indigenously Designed
PLC with IoT

XM-PRO
10

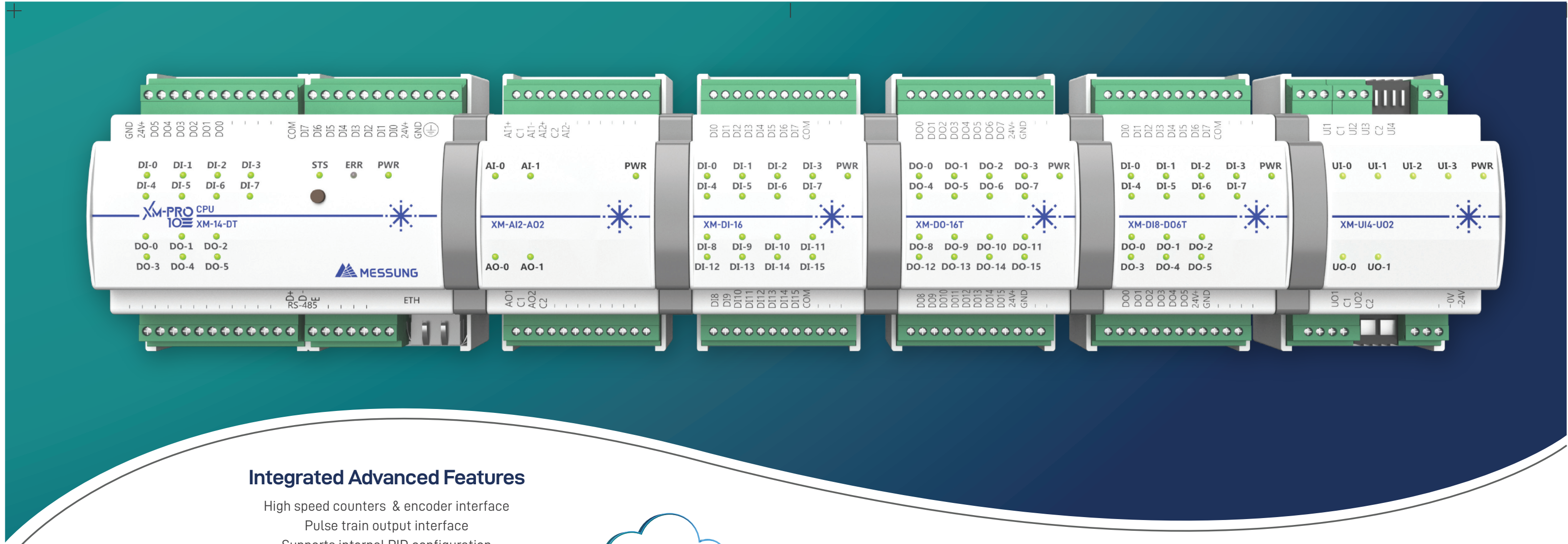
A CLASS
OF ITS OWN

PLC with IOT



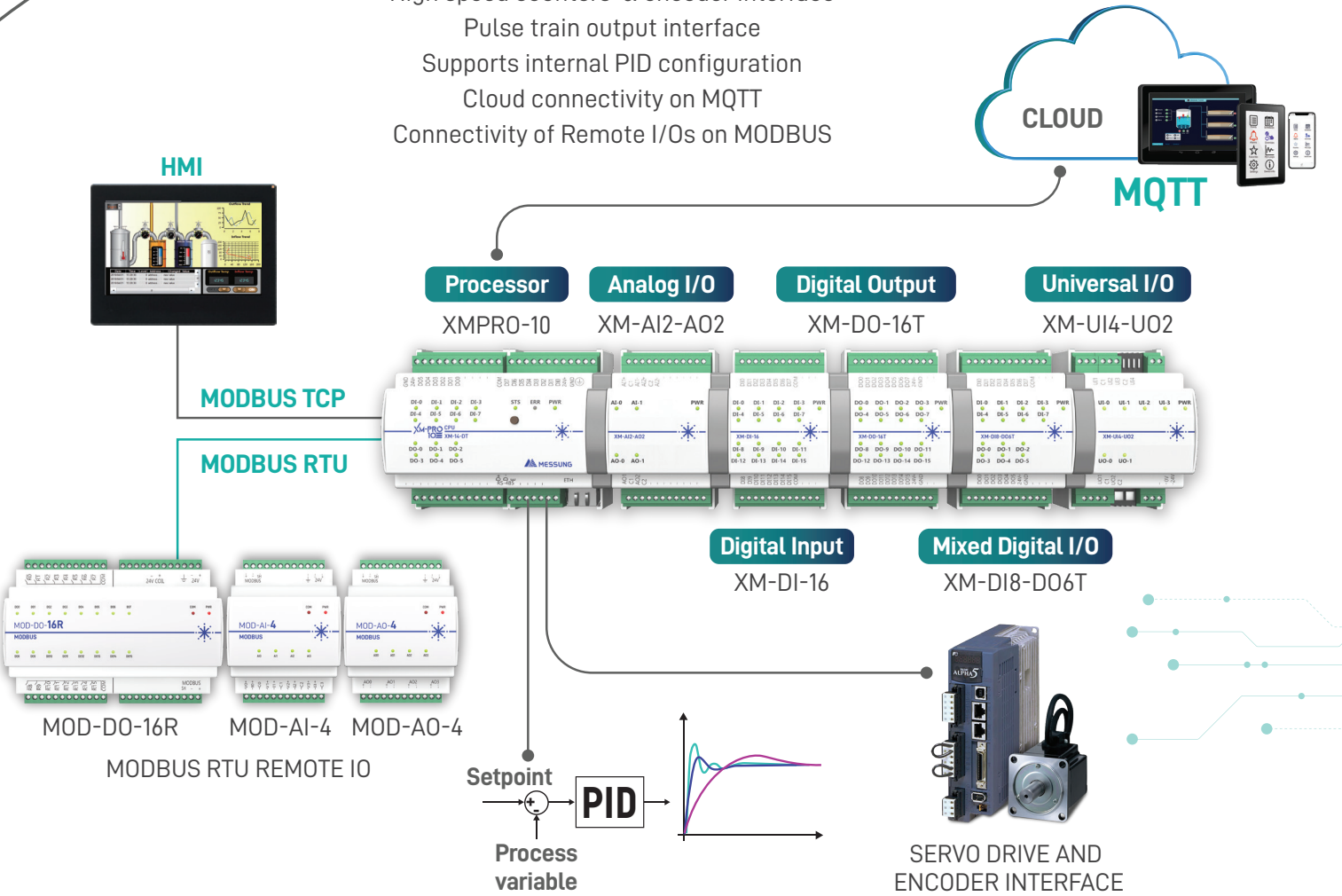
PLC System for
Industrial Automation

www.messungautomation.co.in



Integrated Advanced Features

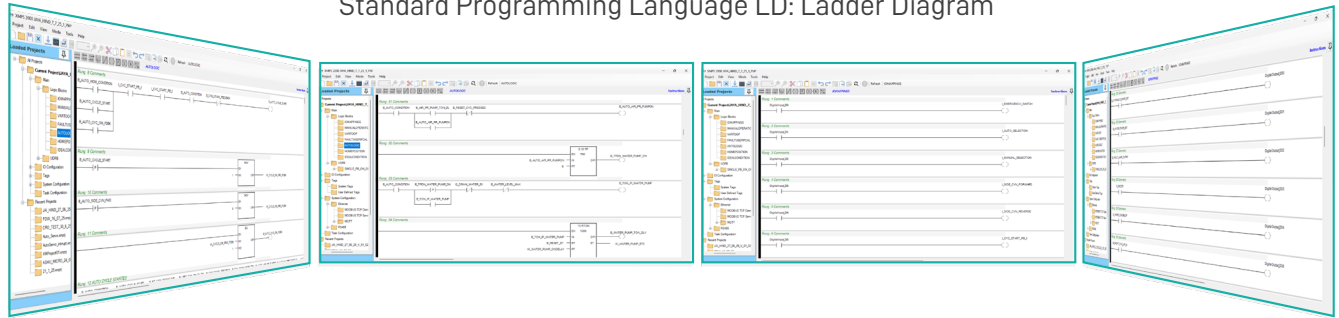
- High speed counters & encoder interface
- Pulse train output interface
- Supports internal PID configuration
- Cloud connectivity on MQTT
- Connectivity of Remote I/Os on MODBUS



Designed for Utility, Flexibility, Compatibility.



A Windows-based utility
User friendly environment for better experience with software tools
Programming flexibility, making it compatible to a varied range of applications
Online diagnostics functionality for runtime status
Standard Programming Language LD: Ladder Diagram



Wide Applications. Compact Size.

Messung's new XM-PRO 10 PLC system can be used for a wide range of small to mid-range applications across industry verticals. This flexible and future-proof industrial automation solution is ideal for Special Purpose Machines, and for Packaging, Labelling, Sorting in the Food Processing industry. The gamut of applications also includes Textile, Chemical, Automobile, Machine Tools, Plastic Moulding, Printing and other industries.

Product Specifications

Input Power	24VDC
MCU Speed	240 Nano seconds for Bit Instructions / 280 Nano seconds or Word Instructions
PLC Instructions Execution Time	2.05 µs for Load and Store Instructions
Program Memory	256 Kbytes
Retained Memory	4kb Memory
I/O Capacity (Base + Expansion + Remote)	Can be expanded up to 80 I/Os
Expansions	5 unit max.
Digital Inputs	8 channel 24VDC isolated inputs (sink/source)
Analog Inputs	12bit, 0-10v/0-20mA/4-20mA
Digital Outputs	6 channel 24VDC transistor output (500mA per channel)
Analog Outputs	12bit, 0-10v/0-20mA/4-20mA
Fast Digital Inputs	6 channel HSC Inputs, Max. 100Khz
Fast Digital Outputs	2 channel PTO Outputs, Max. 100Khz
Communication Ports	Ethernet, RS485
Protocols	Modbus TCP (Client/Server), Modbus RTU (Master)/ MQTT (Message Queuing Telemetry Transport)
Programming Software	XMPS-2000
Certification	CE

XM-PRO CPU Variants

XM-14-DT	XM-PRO PLC Base Unit with 8 ch. 24VDC Inputs & 6 ch. 24VDC Outputs 500mA
XM-17-ADT	XM-PRO PLC Base Unit with 8 ch. 24VDC Inputs & 6 ch. 24VDC Outputs 500mA, 2 ch. Analog Inputs & 1 ch. Analog Output
XM-14DT-HIO	XM-PRO PLC Base unit with 8 ch. 24VDC inputs (6- High speed Inputs max.100Khz) & 6 ch. 24VDC Outputs 500mA (2- High speed Outputs max.100Khz 30mA)
XMPRO-10 PLC with IIOT	XMPRO-10 PLC with IIOT exclusive for seamless cloud integration, remote monitoring & control. Supports MQTT protocol.

XM-PRO CPU Features

	XM-14DT	XM-17ADT	XM-14DT-HIO
Digital Inputs (DI)	8	8	8
Digital Outputs (DO)	6	6	6
Analog Inputs V/I (AI)	-	2	-
Analog Outputs V/I (AO)	-	1	-
High Speed Input (HSC)	-	-	4
High Speed Output (PTO)	-	-	2
Ethernet TCP/IP Interface	YES	YES	YES
RS-485 Serial Interface	YES	YES	YES
MQTT Interface**	YES	YES	YES

**Available only with XMPRO-10 PLC with IOT Variants*