

THE LITTLE SMART LOGIC BOX

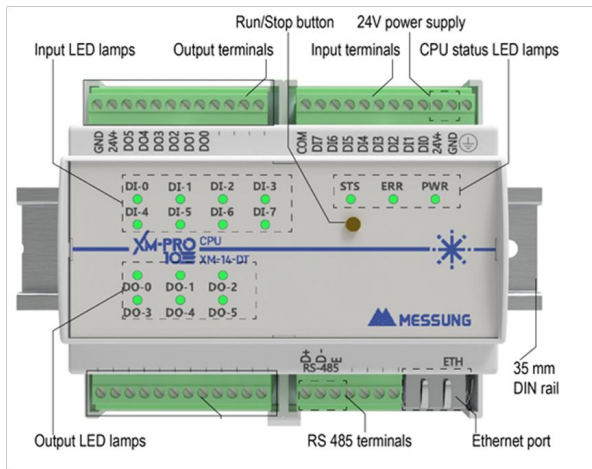
Indigenously Designed PLC with IoT.




PLC with IoT

**A CLASS
OF ITS OWN**

XM14-DT



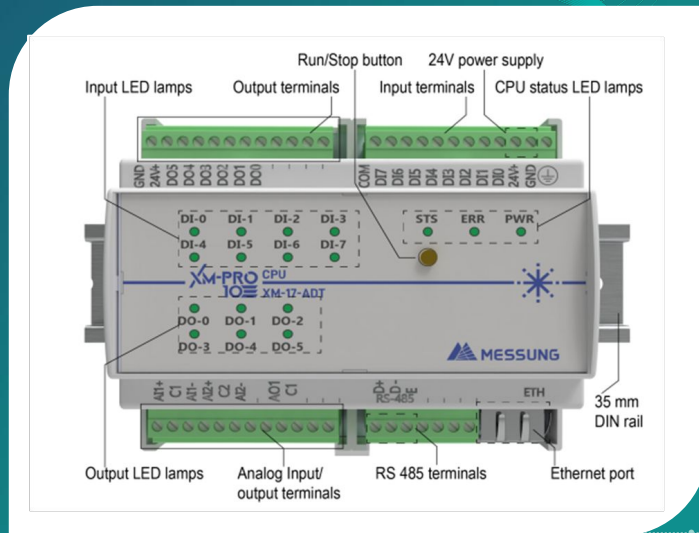
XM-14DT Basic CPU

- 24VDC 8 input; 6 Transistor Output, 0.5 Amp
- DIN rail Mountable
- One Ethernet Port (10/100MBps)
- RS-485 Port with Modbus RTU Master
- Expandable till 5 units (80 I/O's)
- Extendable by Modbus RTU modules on RS-485
- Ladder programming by XMPS-2000 Software
- Program Memory – 256KB
- Retentive Memory – 3.2KB
- Function support: Logic, Arithmetic, Comparison ...
- Timers(ON, OFF, Pulse): 256 each, RTC
- Ethernet IP Protocol: Modbus TCP/IP (Master/Slave)
- RS-485 : Modbus RTU
- Cloud interface: MQTT

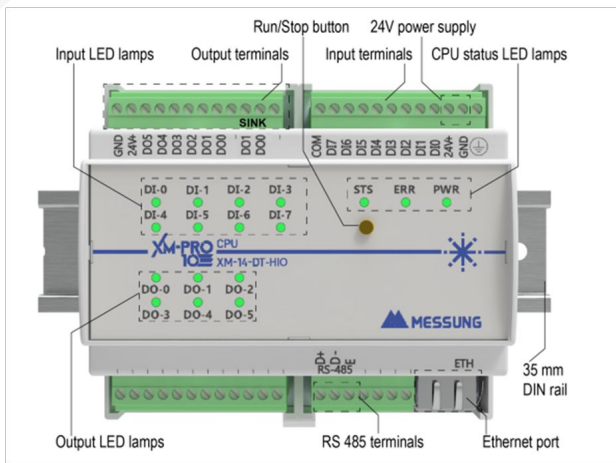
XM17-ADT

XM17-DT CPU

- Additional to XM14-DT, XM17-ADT offers:
- 2 Analog Inputs, 1 Analog Output
- 12 bit Resolution
- Analog is selectable as Voltage (0-10V), Current (0-20mA, 4-20mA)
- Analog can be calibration by XMPS-2000 software
- Inbuilt Proportional-Integral-Derivative (PID) function with manual tuning.
- Easy addition of digital or analog input/outputs using expansion modules.



XMP14-DT-HIO



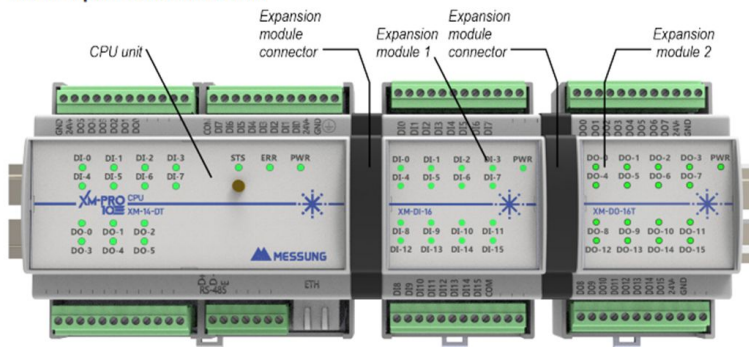
XM14-DT CPU

Additional to XM14-DT, XM14-DT-HIO offers:

- 4 High speed inputs (100KHz) Single Channel type/ Incremental Pulse Encoder type
- Direction detection by Encoder interface 2-channel interface
- 2 Interrupt inputs
- 2 Pulse outputs (for Stepper / Servo command interface)
- Easy addition of digital or analog input/ outputs using expansion modules.

XM-PRO PLC Expansion Modules

Local expansion for PLC unit



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 (24VDC sink/source type)
& 6 channel Digital Output (24 VDC Source type)
Transistor output (500mA per output) 1.5A per group.**

XM-AI2-AO2

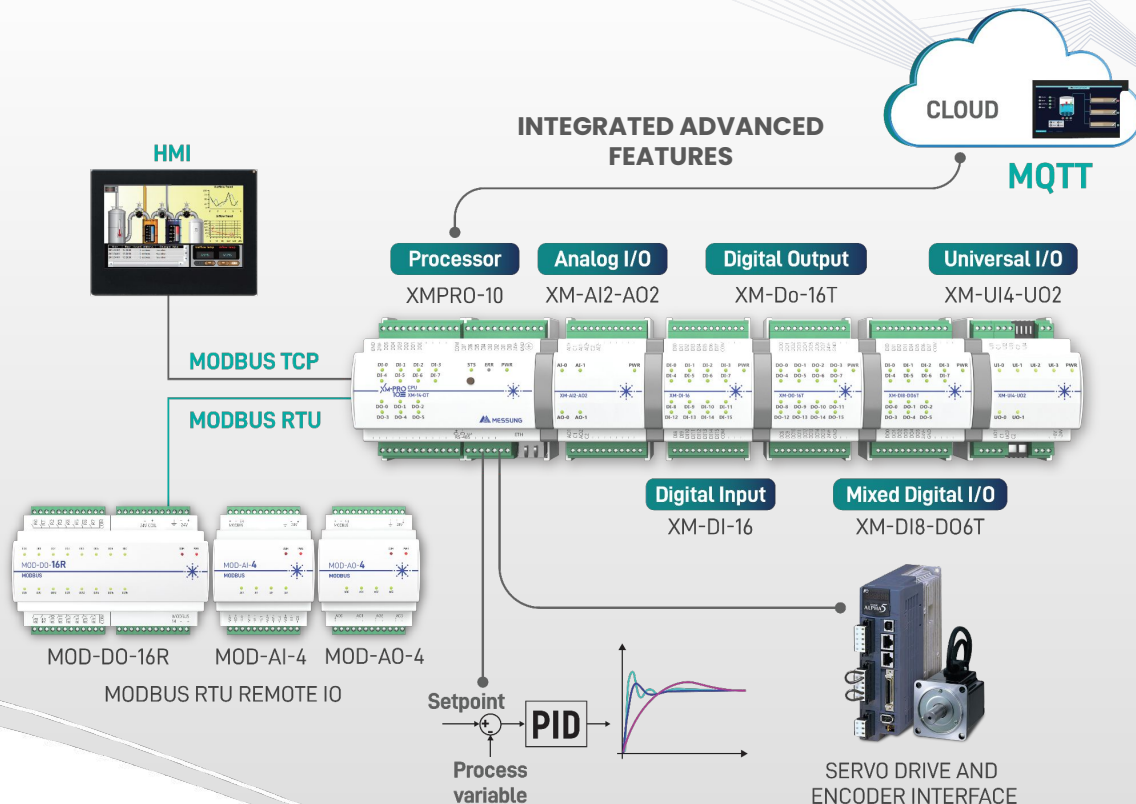
**2 channel Analog Input and 2 channel
Analog Output. 12bit (0-10v/0-20mA)**

XM-UI4-U02

**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)**

XM-PRO 10 PLC Architecture

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



XM-PRO CPU Variants

Description	XM-14DT	XM-17ADT	XM-14DT-HIO
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 Client Interface	Optional**	Optional**	Optional**

*2 High Speed Outputs you can connect as a Source or Sink

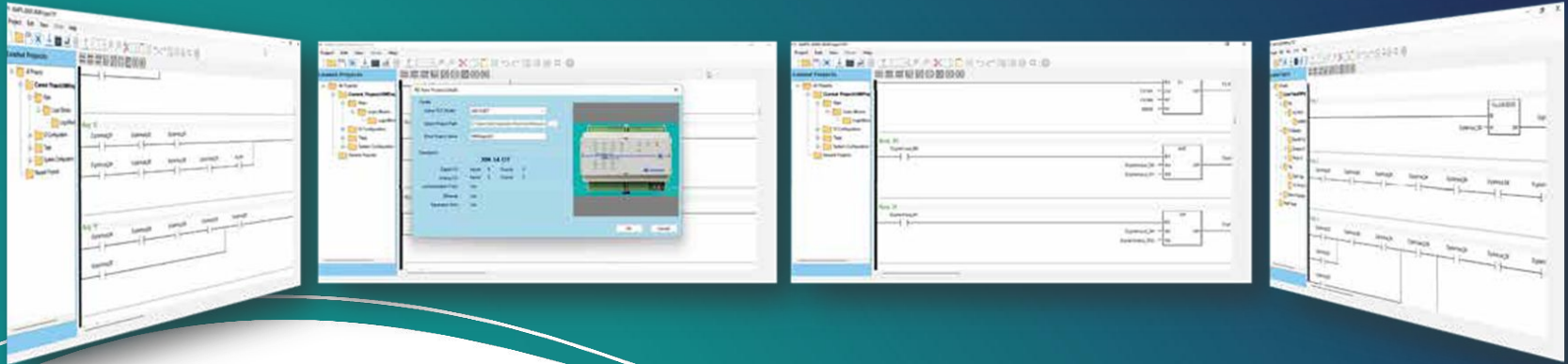
**MQTT Client Licence required

XMPS-2000 SOFTWARE

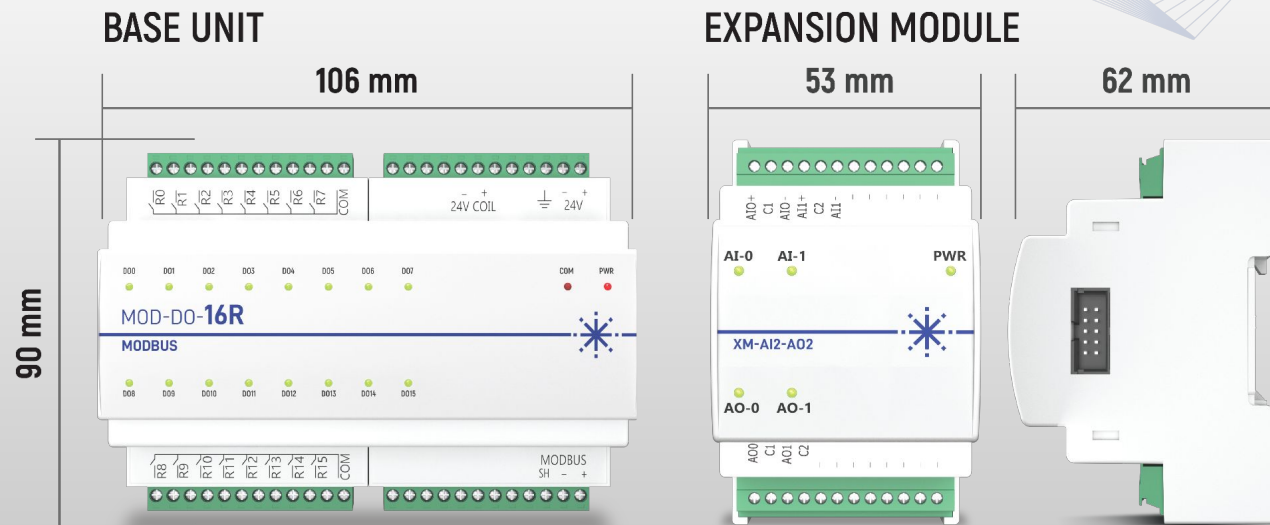
Designed for :

Utility
Flexibility
Compatibility

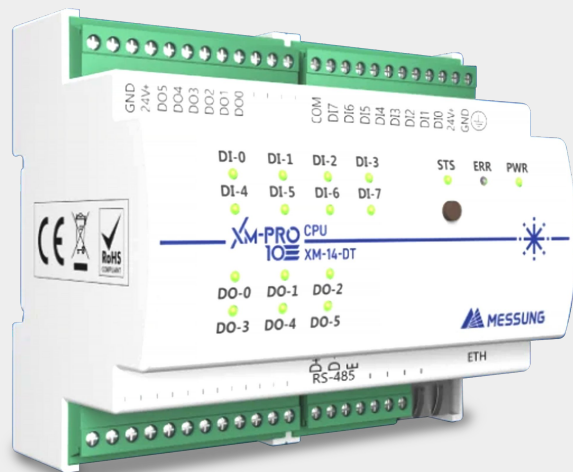
- A Windows-based utility
- User friendly environment for better experience with software tools
- Programming flexibility, making it compatible to a varied range of applications
- Online diagnostics functionality for runtime status
- Standard Programming Language LD: Ladder Diagram



Dimension Details

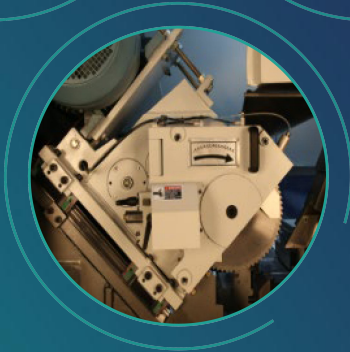


Sample Applications

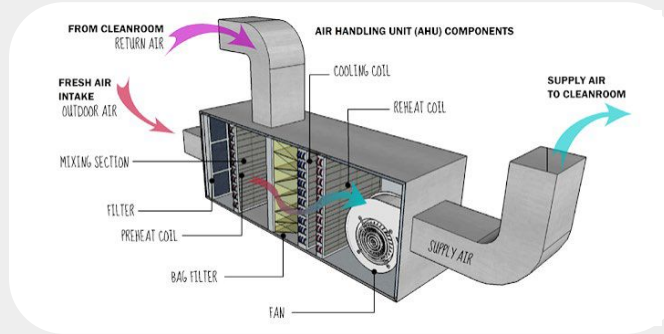
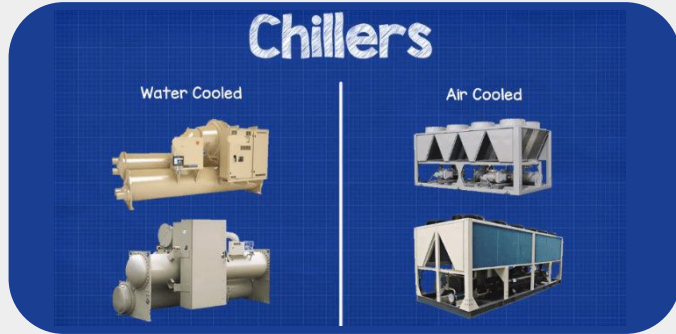


1. Foundry – Core Shooter
2. Screen Printing
3. Wastewater Treatment
4. AHU Air Handling Unit
5. Dehumidifier
6. Salt Spray Chamber (Humidity Chamber)
7. Chiller Plant
8. Automobile(Drilling, Taping)

Sample Images



Chiller-AHU-De-Humidifier



Dehumidifier



AHU



THANK YOU!