



EUROTHERM

CONTROLS
PROCESS AUTOMATION
RECORDERS

Mtr3In

CONTROL
MODULE

On/off motor, three inputs, maintained or pulsed outputs Standard Control Module Library

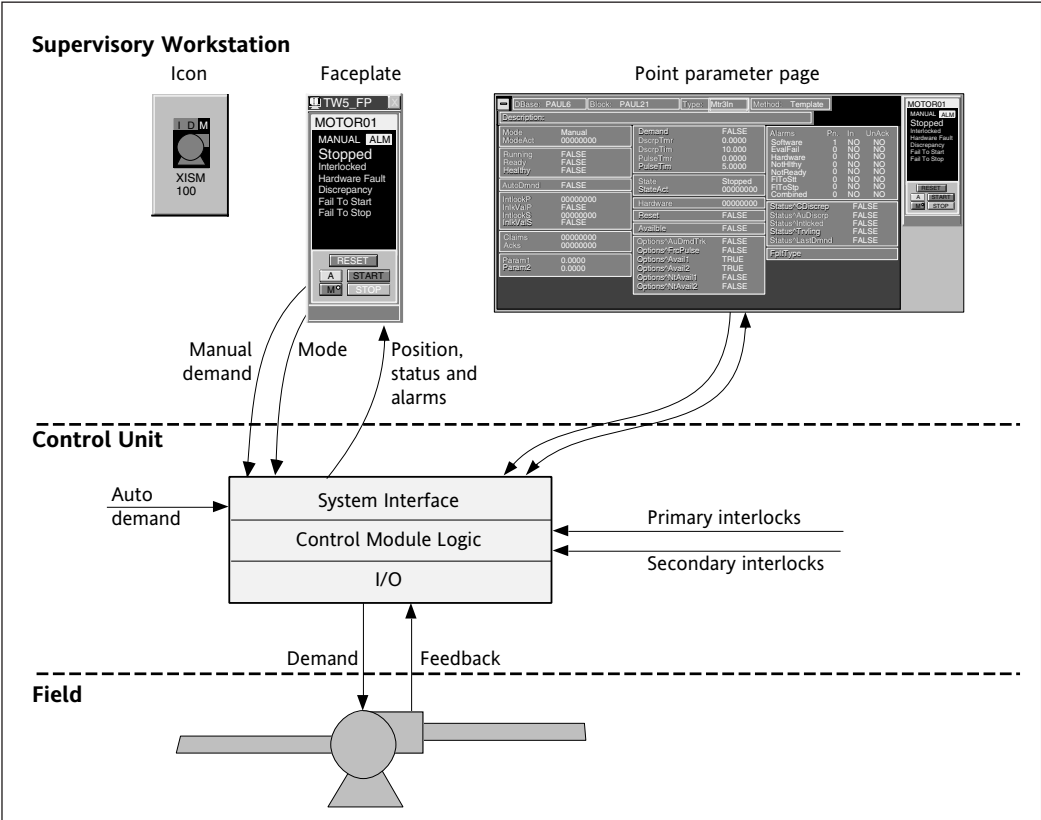
The Mtr3In control module is designed for an on/off motor with three inputs (feedback), offers a choice of maintained or pulsed outputs, and provides the following functionality:

- Setting a motor demand
- Standard supervisory workstation interface
- Standard software block
- Status and alarm display
- Operator faceplate
- Engineer point display
- Interlocks

The Mtr3In control module forms part of a library of software function blocks designed to aid the implementation of motor control. Associated with each control module is a custom-built point fascia, an engineering point display and a graphical mimic icon for the supervisory workstation.

Applications

The control module offers the functionality required to drive a typical electric motor. It can be applied to motors, pumps, fans, agitators, etc.



OUTLINE SPECIFICATION

I/O

Healthy

Maintained digital (Healthy/Not healthy))

Running Input

Maintained digital (Running/Stopped)

Ready Input

Maintained digital (Ready/Not ready)

Maintained Demand Outputs

Maintained digital (Start/ Stop)

Pulsed Demand Outputs

Start pulse
Stop pulse

Operating Modes

Manual/Maintenance

Allows manual operation of the motor

Automatic

Allows automatic operation of the motor

Interlocks

Primary Interlocks

Up to eight maintained digital inputs

Secondary Interlocks

Up to eight maintained digital inputs

The interlock demands override the Automatic and Manual demands, and a Primary Interlock overrides a Secondary.

Alarms

Hardware

Failure of associated I/O modules if required

Motor Position Unknown

Motor Not Healthy

Motor Not Ready

Motor Failed to Start

Motor Failed to Stop

Faceplate

Valve Status

Mode

Displays Manual/Auto/Maint

Derived Status

Displays Running/Stopped/Starting/Stopping

Interlocked

Displayed when motor is in an interlock state

Hardware Fault

Displayed when motor has an I/O failure

Discrepancy

Displayed when motor has a discrepancy alarm

Fail To Start

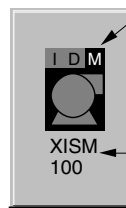
Displayed when motor fails to start

Fail To Stop

Displayed when motor fails to stop



Mimic Icon



Notations

A	Automatic mode selected
M	Manual mode selected
M (blue background)	Maintenance
I	Interlock active
D	Motor in discrepancy alarm
Line 1/Line 2	Textual control module tag or description

Colours

Red	Stopped
Green	Running
Yellow	Starting
	Stopping
Grey	Not communicating
Flashing	Flashing Block alarm

Operator Interaction

Reset Button

Resets the latched alarm mode

A Button

Selects automatic mode

M Button

Selects manual mode

Start Button

Starts the motor in manual mode

Stop Button

Stops the motor in manual mode

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