

Compute TempSensor_EU = (AI_TempSensor_Raw * 100.0) / 32767.0. Converts the raw input to a 0–100 scale (°C in this project) for PID processing.

CPT	
Dest	TempSensor_EU
	0.0
Expression	(AI_TempSensor_Raw*100.0) / 32767.0

Execute PID TEMP_PID with PV = TempSensor_EU, CV = PID_Output, SP = 22.0, Tieback = 0.0. This produces a % output that downstream logic clamps/uses to command the fresh-air damper.

PID	
PID	TEMP_PID ...
Process Variable	TempSensor_EU
Tieback	0.0
Control Variable	PID_Output
PID Master Loop	0
Inhold Bit	0
Inhold Value	0
Setpoint	22.0
Process Variable	0.0
Output %	0.0

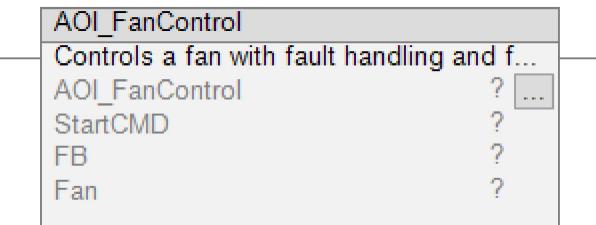
(End)

AOI_FanControl v2.0

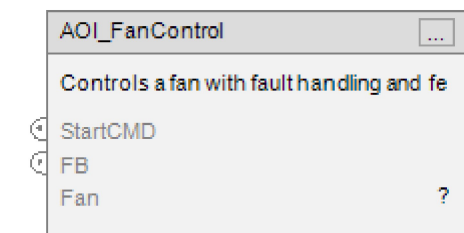
Controls a fan with fault handling and feedback

Available Languages

Relay Ladder



Function Block



Structured Text

AOI_FanControl(Fan);

Parameters

Required	Name	Data Type	Usage	Description
X	AOI_FanControl	AOI_FanControl	InOut	Controls a fan with fault handling and feedback
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	StartCMD	BOOL	Input	Controls a fan with fault handling and feedback
	FB	BOOL	Input	Feedback from field or sim
X	Fan	UDT_Fan	InOut	Complete fan structure

Extended Description

Execution

Condition	Description
EnableIn is true	

Revision v2.0 Notes

Name	Default	Data Type	Scope
Fan		UDT_Fan	AOI_FanControl
Complete fan structure			
Usage:	InOut Parameter		
Required:	Yes		
Visible:	Yes		
Constant	No		
Fan.CMD_Start	??	BOOL	
Complete fan structure start command from logic			
Fan.Running	??	BOOL	
Complete fan structure Feedback from fan			
<i>Fan.Running - AOI_FanControl/Logic - *0(OTE), 1(XIC)</i>			
Fan.Fault	??	BOOL	
Complete fan structure Fan fault status			
<i>Fan.Fault - AOI_FanControl/Logic - *2(OTE), 0(XIO)</i>			
Fan.Feedback	??	BOOL	
Complete fan structure Status signal from Field			
<i>Fan.Feedback - AOI_FanControl/Logic - *3(OTE)</i>			
FB	0	BOOL	AOI_FanControl
Feedback from field or sim			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>FB - AOI_FanControl/Logic - 1(XIO), 3(XIC)</i>			
StartCMD	0	BOOL	AOI_FanControl
Controls a fan with fault handling and feedback			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>StartCMD - AOI_FanControl/Logic - 0(XIC)</i>			

Name	Default	Data Type	Scope
TMR_Fault		TIMER	AOI_FanControl
Usage:	Local Tag		
External Access:	None		
<i>TMR_Fault - AOI_FanControl/Logic - *1(TON)</i>			
TMR_Fault.DN	0	BOOL	
<i>TMR_Fault.DN - AOI_FanControl/Logic - 2(XIC)</i>			

