

Main [OB1]

Main Properties

General

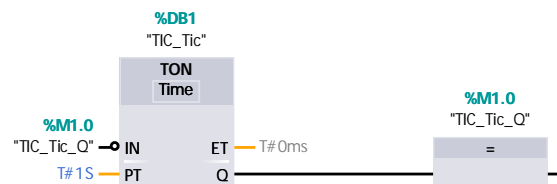
Name	Main	Number	1	Type	OB
Language	FBD	Numbering	Manual		

Information

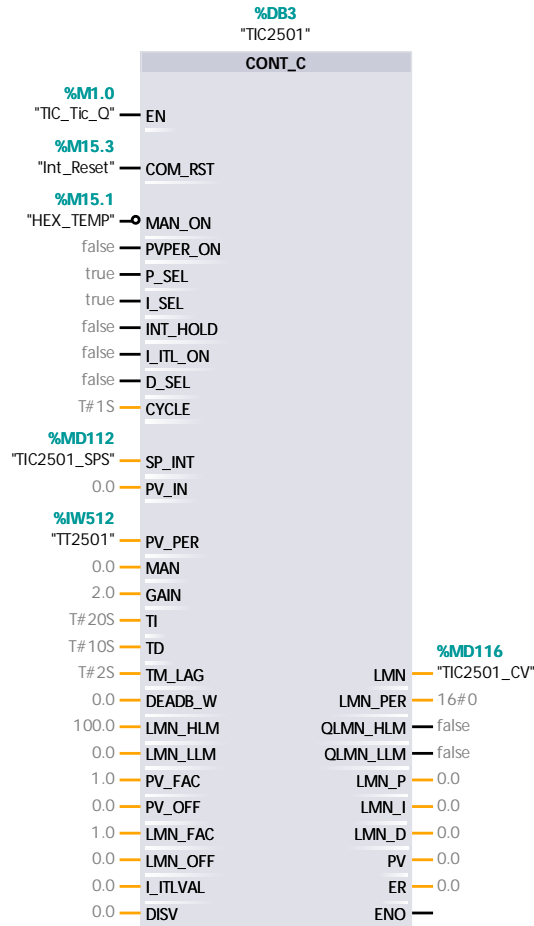
Title	"Main Program Sweep (Cycle)"	Author		Comment	Example 11.3 Heat Exchanger Cascade with Feedforward Control Copyright (c) 2022 Dogwood Valley Press, LLC
Family		Version	0.1	User-defined ID	

Name	Data type	Default value
▼ Temp		
OB1_EV_CLASS	Byte	
OB1_SCAN_1	Byte	
OB1_PRIORITY	Byte	
OB1_OB_NUMBR	Byte	
OB1_RESERVED_1	Byte	
OB1_RESERVED_2	Byte	
OB1_PREV_CYCLE	Int	
OB1_MIN_CYCLE	Int	
OB1_MAX_CYCLE	Int	
OB1_DATE_TIME	Date_And_Time	
Constant		

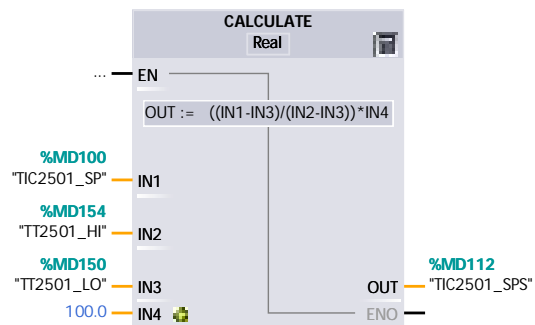
Network 1: Timer for TIC



Network 2: TIC2501 Heat Exchanger temp. master loop

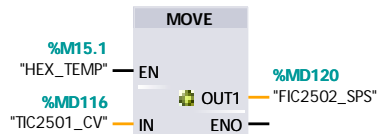


Network 3: Scale TIC operator setpoint to 0-100 required by PID



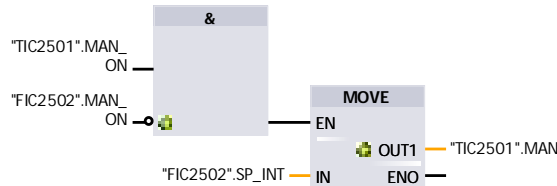
Network 4: Both loops auto

Copy TIC out to FIC SP.

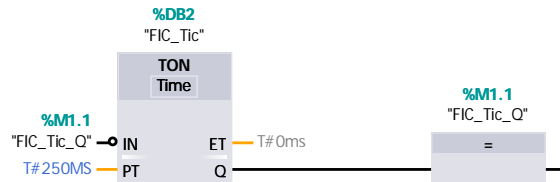


Network 5: When master in manual and slave in auto

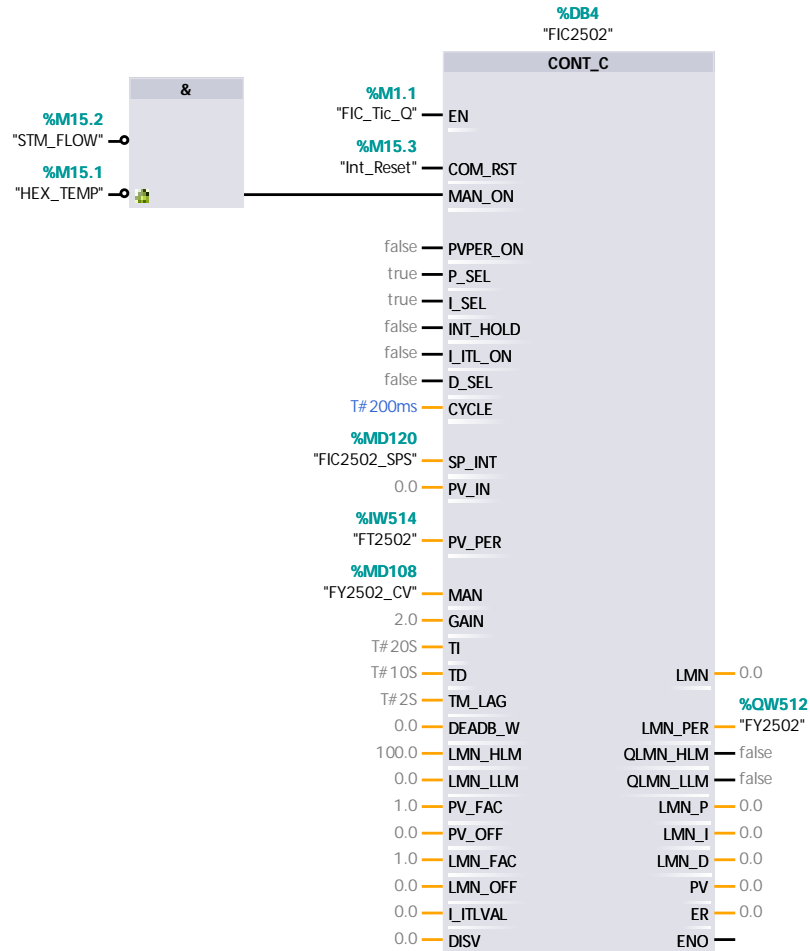
Copy flow SP to TIC manual out.



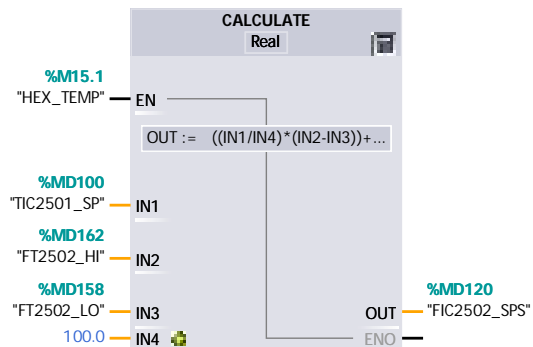
Network 6: FIC timer



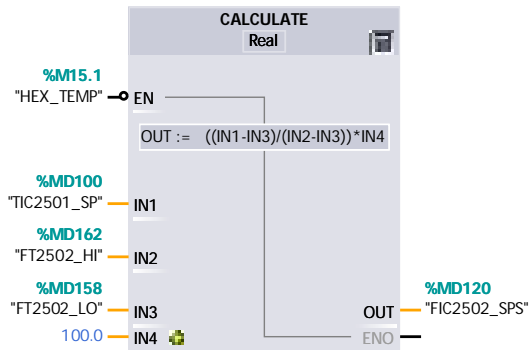
Network 7:



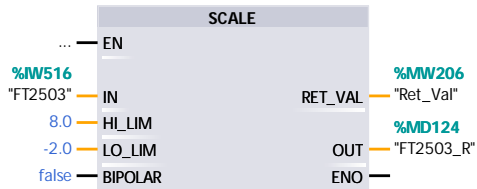
Network 8: If controlling temperature, scale flow SP back to 0-8 gpm fange for operator.



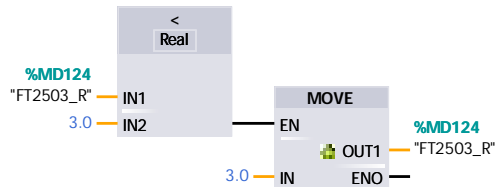
Network 9: If not controlling temperature, scale operator SP to 0-100 for PID.



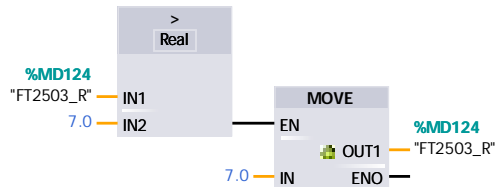
Network 10: Convert feedforward measurement



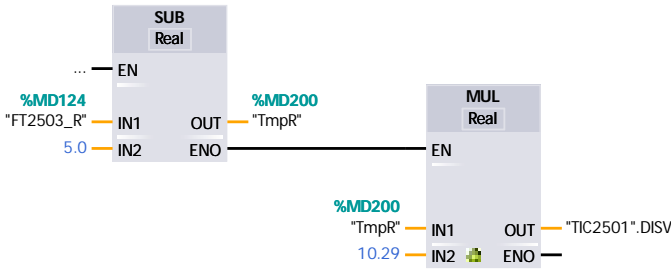
Network 11: Limit valid range to 3 to 7 gpm



Network 12:



Network 13: Feedforward calculation



Network 14:

