

OB1 - <offline>

"Main\_Program"  
**Name:**  
**Author:**  
**Family:**  
**Version:** 0.1  
**Block version:** 2  
**Time stamp Code:** 06/26/2011 07:54:37 PM  
**Interface:** 02/15/1996 04:51:12 PM  
**Lengths (block/logic/data):** 00824 00666 00026

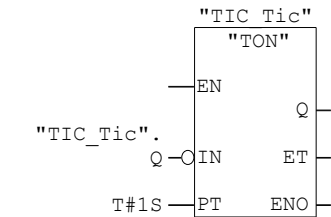
| Name           | Data Type     | Address | Comment   |
|----------------|---------------|---------|---|
| TEMP           |               | 0.0     |   |
| OB1_EV_CLASS   | Byte          | 0.0     | Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1) |
| OB1_SCAN_1     | Byte          | 1.0     | 1 (Cold restart scan 1 of OB 1), 3 (Scan 2-n of OB 1)     |
| OB1_PRIORITY   | Byte          | 2.0     | Priority of OB Execution                                  |
| OB1_OB_NUMBR   | Byte          | 3.0     | 1 (Organization block 1, OB1)                             |
| OB1_RESERVED_1 | Byte          | 4.0     | Reserved for system                                       |
| OB1_RESERVED_2 | Byte          | 5.0     | Reserved for system                                       |
| OB1_PREV_CYCLE | Int           | 6.0     | Cycle time of previous OB1 scan (milliseconds)            |
| OB1_MIN_CYCLE  | Int           | 8.0     | Minimum cycle time of OB1 (milliseconds)                  |
| OB1_MAX_CYCLE  | Int           | 10.0    | Maximum cycle time of OB1 (milliseconds)                  |
| OB1_DATE_TIME  | Date_And_Time | 12.0    | Date and time OB1 started                                 |

Block: OB1    "Main Program Sweep (Cycle)"

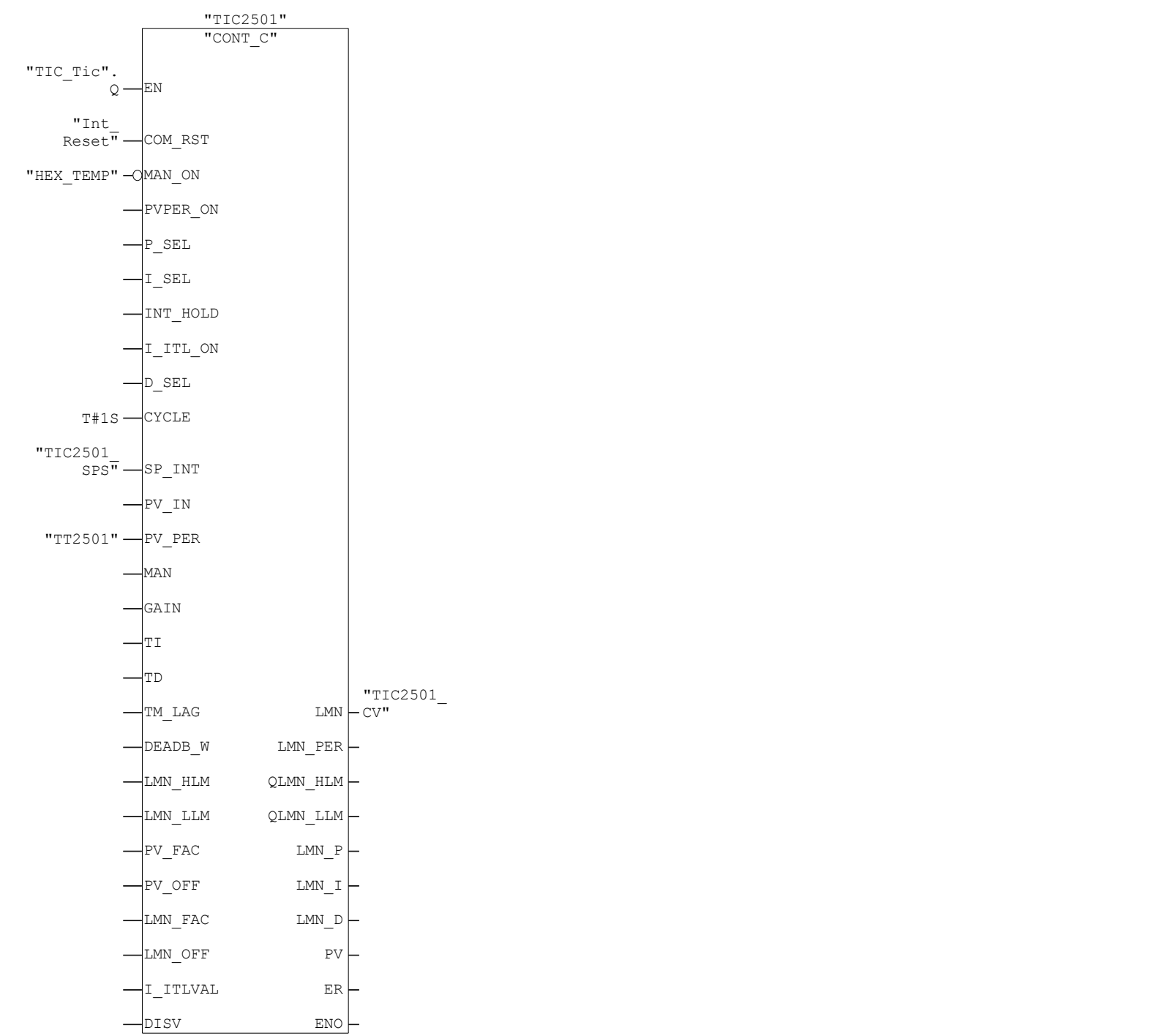
Example 11.2 Heat Exchanger Cascade Control

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Network: 1        TIC2501 Heat Exchanger temp. master loop

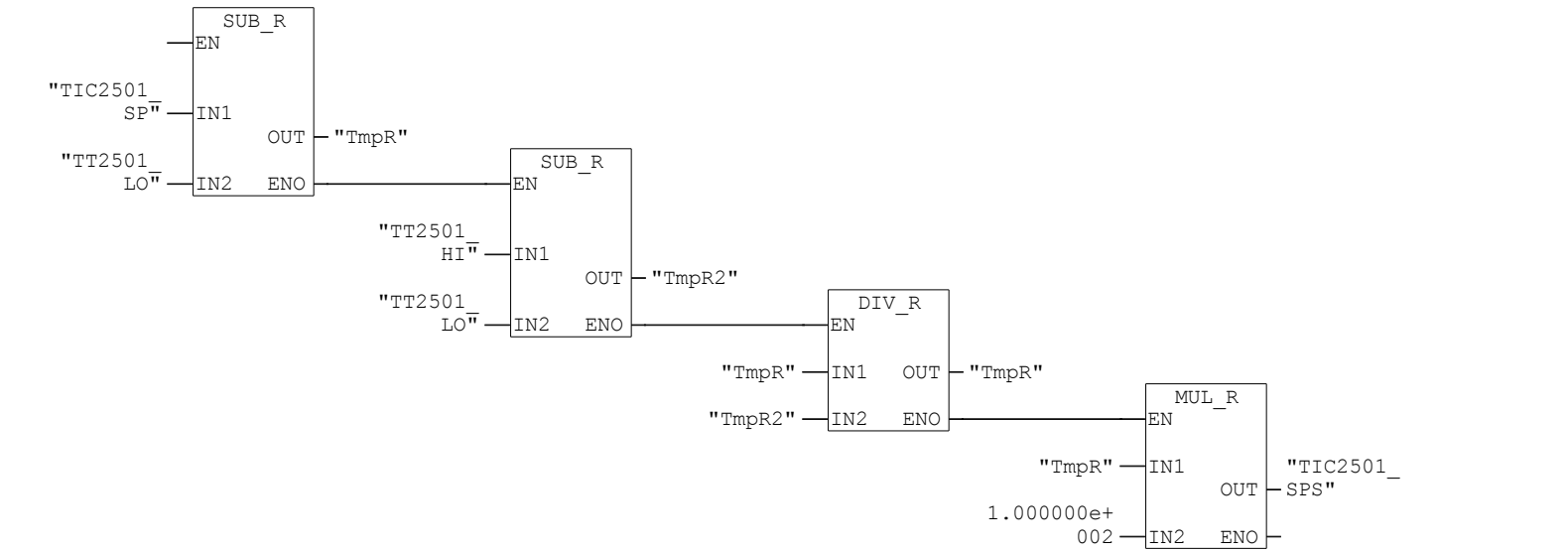


Network: 2



Network: 3

Scale TIC operator setpoint to 0-100 required by PID



Network: 4

When both loops auto, copy TIC out to FIC SP. When master in manual and slave in auto, copy flow SP to TIC manual out.



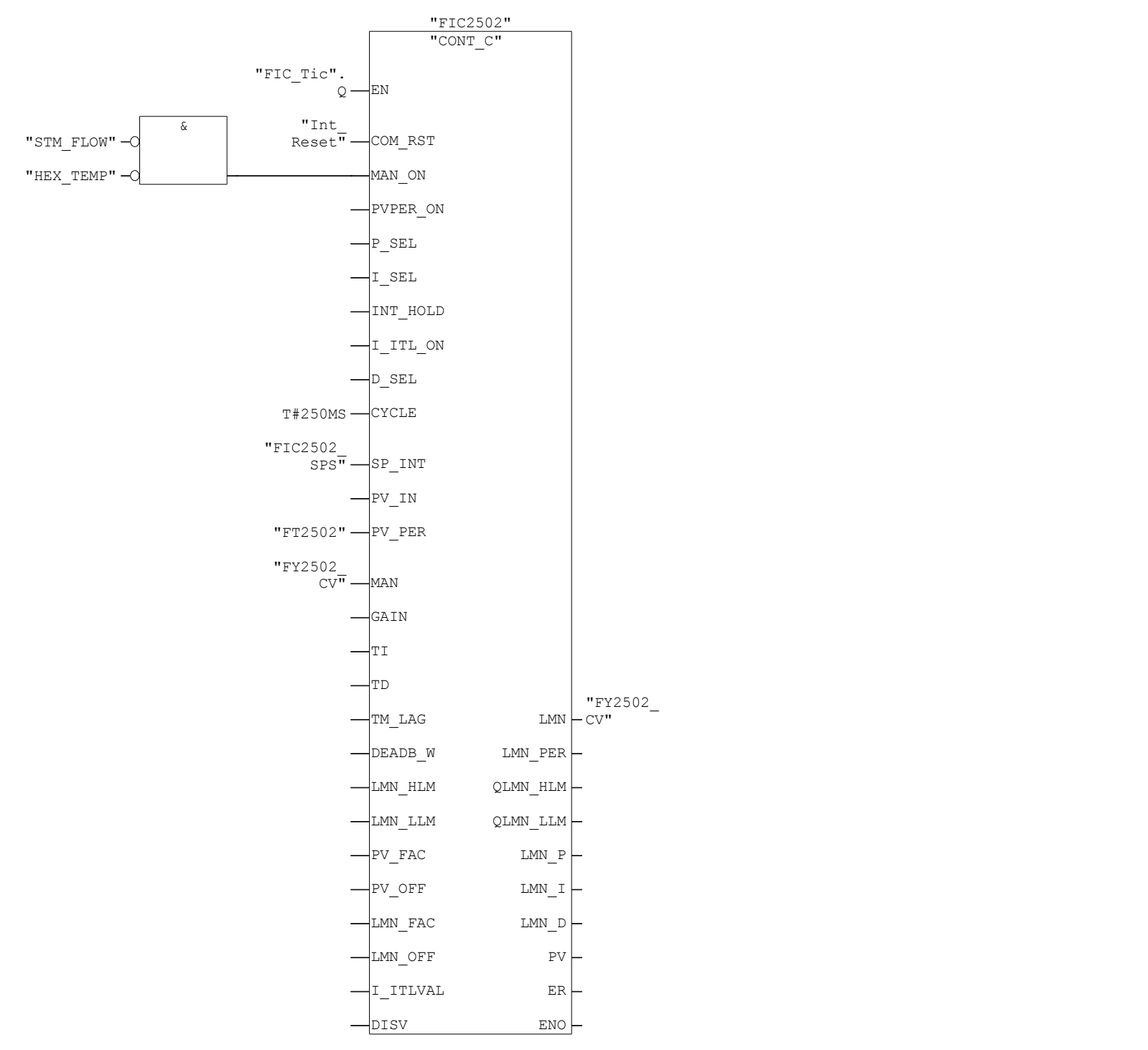
Network: 5



Network: 6

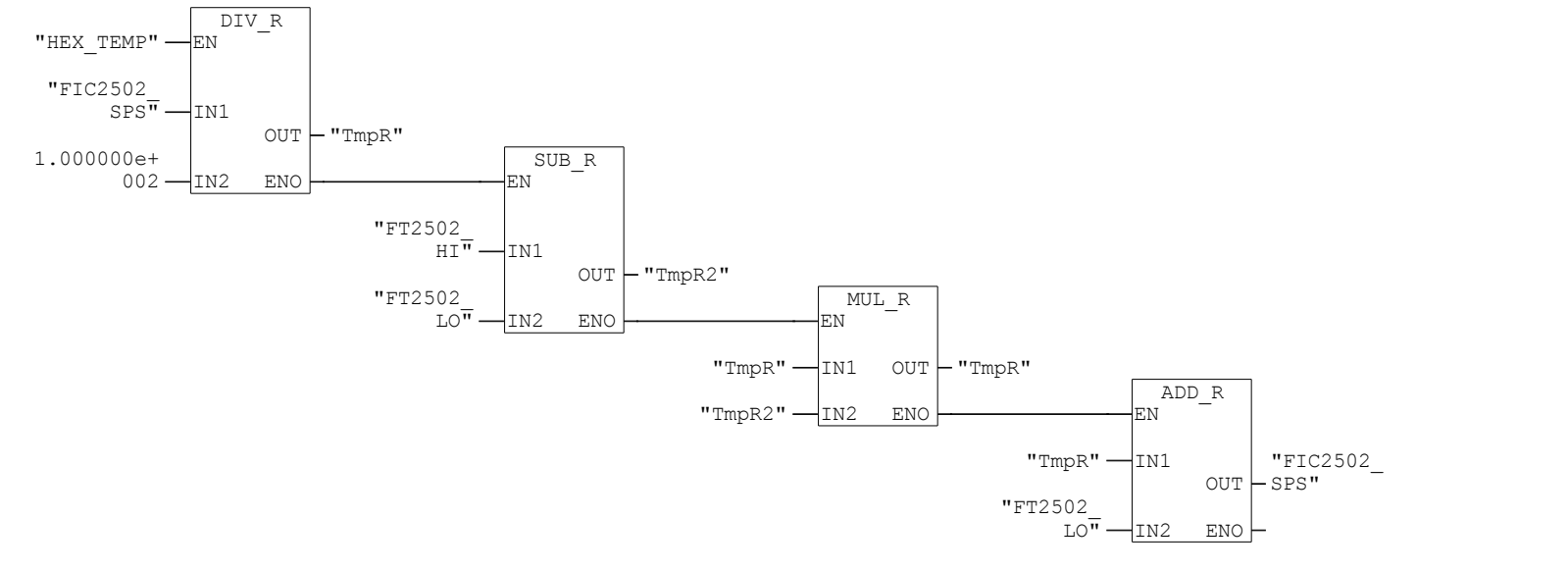


Network: 7



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.

