

Program Description

- RUNG000 is a latching rung to operate the system through Master Start and Stop PB.
- RUNG001 comprises all the conversion needed to control level of the tank.
- Output of transmitter is in current signals which is 4-20mA.
- When output is 4mA, Analog Input Module converts it into 16bit equivalent hex numbers. Hence when input to Analog module is 4mA, it stores 0000h into register and when 20mA, it stores FFFFh into register. Here register N7:0. This conversion is done internally by the A-to-D converter in Analog Input Module.
- Height of the tank is 10m or 1000cm. By converting it into equivalent hex, change in value per centimeter is 66 approximately which is stored in register N7:1.
- Value of N7:1 is then multiplied with the preset value of tank level that is 900cm here.
- This multiplication is stored into N7:2 register. Digital to Analog conversion of value stored in N7:2 is performed inside the processor and equivalent mA current is received from terminal O:4.
- Current to Pneumatic converter then converts current signals into equivalent 3-15psi pneumatic signal and adjusts valve opening.

Ladder Diagram to solve control pressure head



Runtime Test Cases

Input	Output	Valve percentage open
N7:0 = 0000h	O:6 = 0000h	Valve 100% Open
N7:0 = FFFFh	O:6 = E506h	Valve 90% Open

Industrial Automation And Robotics Lab Manual

Robert R. Redfield



Industrial Automation And Robotics Lab Manual:

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