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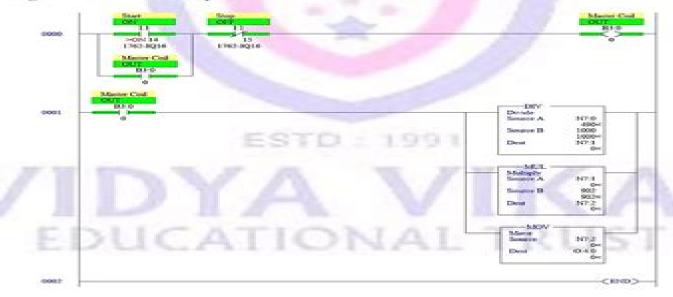


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#### Program Description

- 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:** 

Decoding Industrial Automation And Robotics Lab Manual: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Industrial Automation And Robotics Lab Manual**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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