Prog1

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# Prog1

**Local Variables**

| Name | Alias | Data Type | Dimension | Initial Value | Project Value | Comment | Direction | Retained | String Size |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ONE |  | REAL |  | 50.0 |  |  | Var | False |  |
| MIN\_LIMIT |  | REAL |  | 100.0 |  |  | Var | False |  |
| MAX\_LIMIT |  | REAL |  | 800.0 |  |  | Var | False |  |
| SCALER\_1 |  | SCALER |  | ... | ... |  | Var | False |  |
| MIN\_ADC |  | REAL |  | 0.0 |  |  | Var | False |  |
| MAX\_ADC |  | REAL |  | 4096.0 |  |  | Var | False |  |
| MIN\_SCALE |  | REAL |  | 0.0 |  |  | Var | False |  |
| MAX\_SCALE |  | REAL |  | 1000.0 |  |  | Var | False |  |
| const |  | REAL |  |  |  |  | Var | False |  |
| FALLING\_EDGE |  | BOOL |  |  |  |  | Var | False |  |
| TON\_1 |  | TON |  | ... | ... |  | Var | False |  |
| FALLING\_EDGE2 |  | BOOL |  |  |  |  | Var | False |  |
| TON\_2 |  | TON |  | ... | ... |  | Var | False |  |
| PUMP\_TIMER |  | BOOL |  |  |  |  | Var | False |  |
| PUMP\_TIMER2 |  | BOOL |  |  |  |  | Var | False |  |
| TIMER\_FALLINGEDAGE |  | BOOL |  |  |  |  | Var | False |  |
| TIMER\_FALLINGEDAGE2 |  | BOOL |  |  |  |  | Var | False |  |
| EXHUAST\_VALVE |  | BOOL |  |  |  |  | Var | False |  |

**Rung1 Diagram**

**Program one, increase/decrease vacuum check if reached Maximum/Minimum vacuum limit**





**Rung2 Diagram**

**Program two, increase/decrease vacuum check if reached Maximum/minimum vacuum limit**





**Rung3 Diagram**

**Program one, increase/decrease heating time maximum/minimum heating time limit**





**Rung4 Diagram**

**Program two, increase/decrease heating time maximum/minimum heating time limit**





**Rung5 Diagram**



**Rung6 Diagram**

**Program one/two, vacuum sensor adc reading ADC scaler Program one/two select check if vacuum pump reached set pressure , switch on vacuum pump and to not conflict program one/two**





**Rung7 Diagram**

**Switch on pump coil**



**Rung8 Diagram**

**Switch On heater after pump reached vacuum, heating timer 1or2, and to not conflit between program one and two heater coil**



**Rung9 Diagram**

**Exhuast valve flag**



**Rung10 Diagram**

**exhuast valve coil**



**Rung11 Diagram**

**timer program one, set time for heater**





**Rung12 Diagram**

**timer program two set time for heater**





**Rung13 Diagram**

**Not used**



**Rung14 Diagram**

