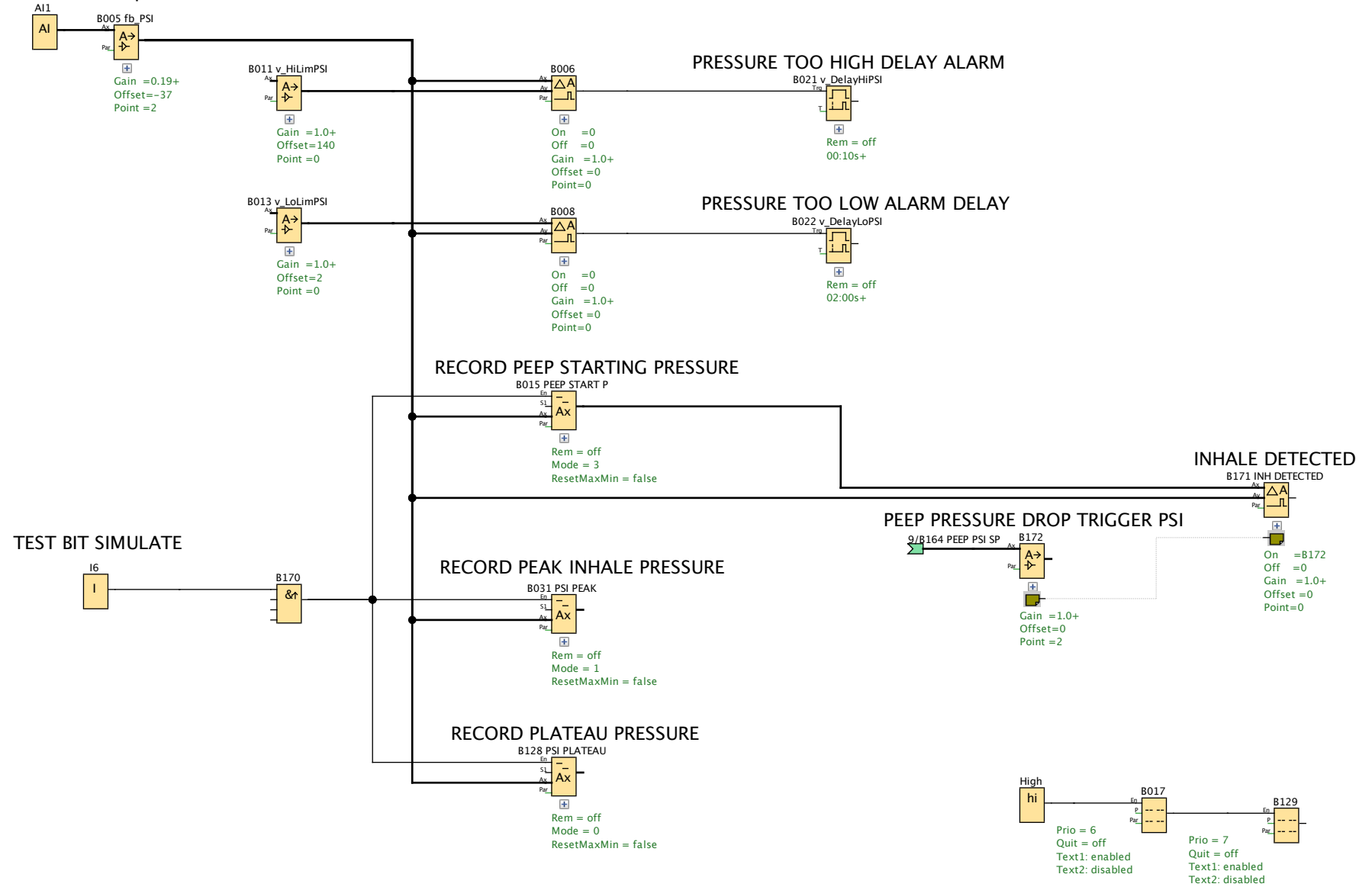


PAGE 1 - PRESSURE MEASUREMENT

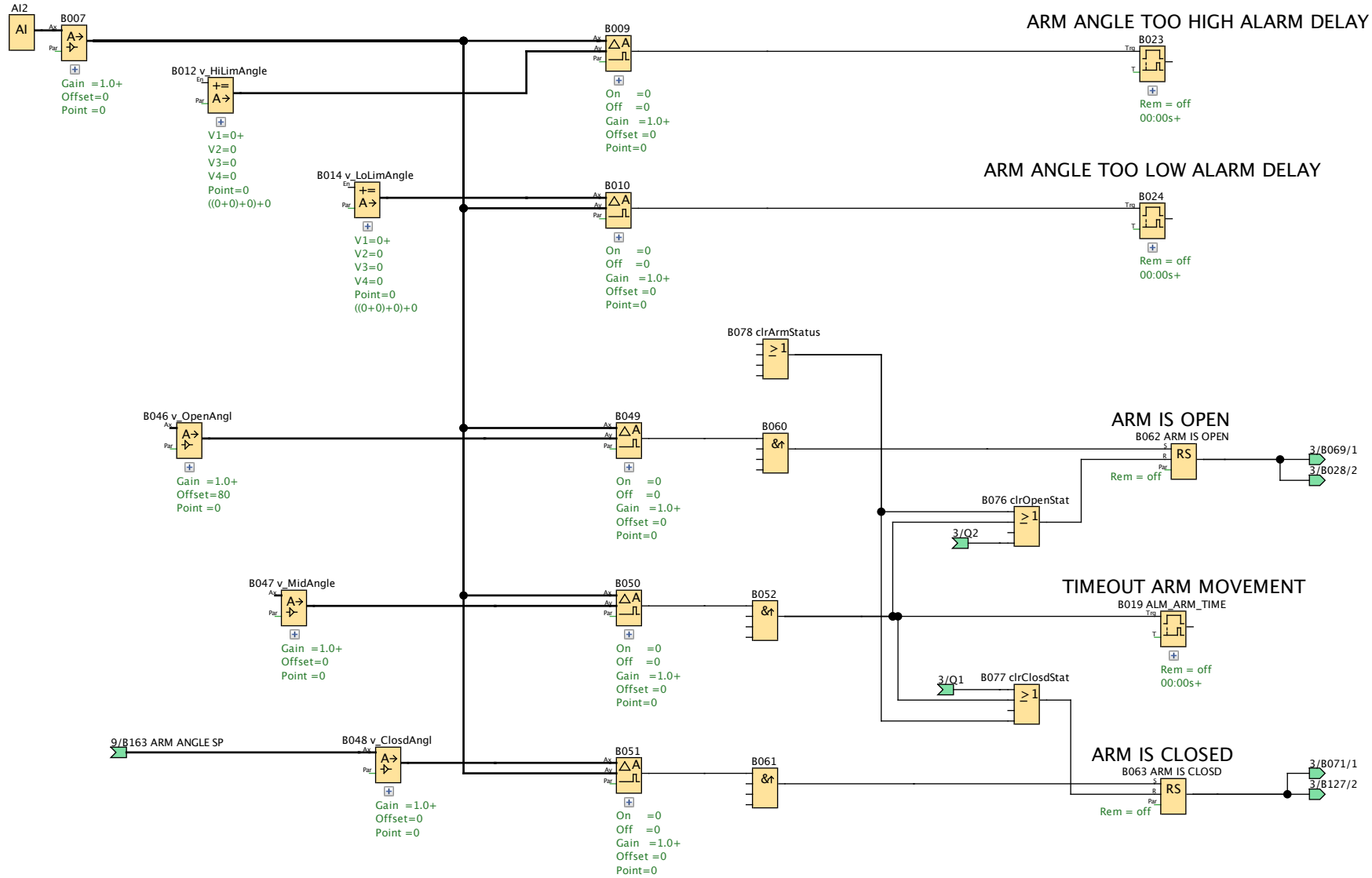
Pressure 0-10V 0-1.45psi



|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
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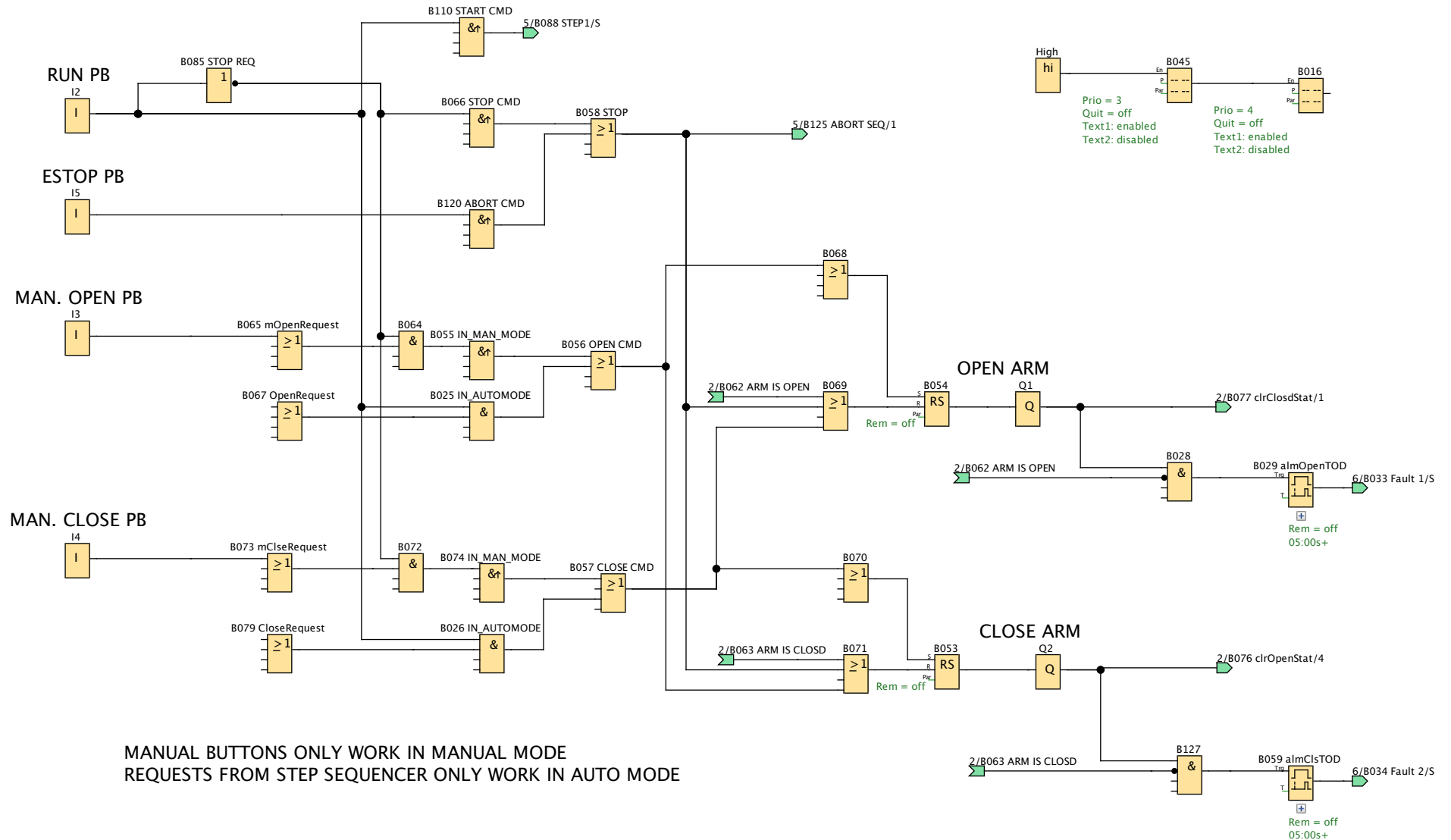
PAGE 2 - ARM ANGLE MEASUREMENT

ARM ANGLE 0-5V = 0-180 DEG



|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
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PAGE 3 ARM CONTROL



MANUAL BUTTONS ONLY WORK IN MANUAL MODE  
 REQUESTS FROM STEP SEQUENCER ONLY WORK IN AUTO MODE

|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 3 / 29     |

PAGE 4 TICK TOCK BIT

STEP 1 (HOMING). RETURN ARM TO HOME POSITION, RESET IO TO INITIAL STATE  
RESET MAX PRESSURE.

STEP 2. (INHALE) ADVANCE ARM TO CLAMPING POSITION, RECORD MAX PRESSURE

STEP 3. (PLATEAU) WAIT XXXX MSEC

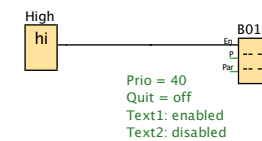
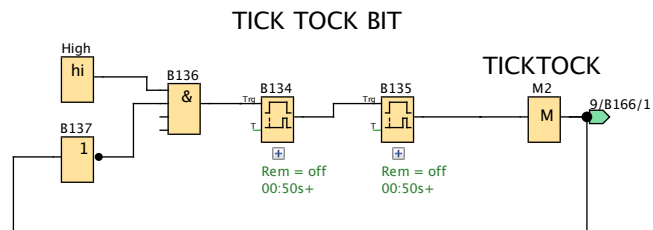
STEP 4. RECORD PLATEAU PRESSURE

STEP 5. (EXHALE) RETURN ARM TO RETRACTED POSITION

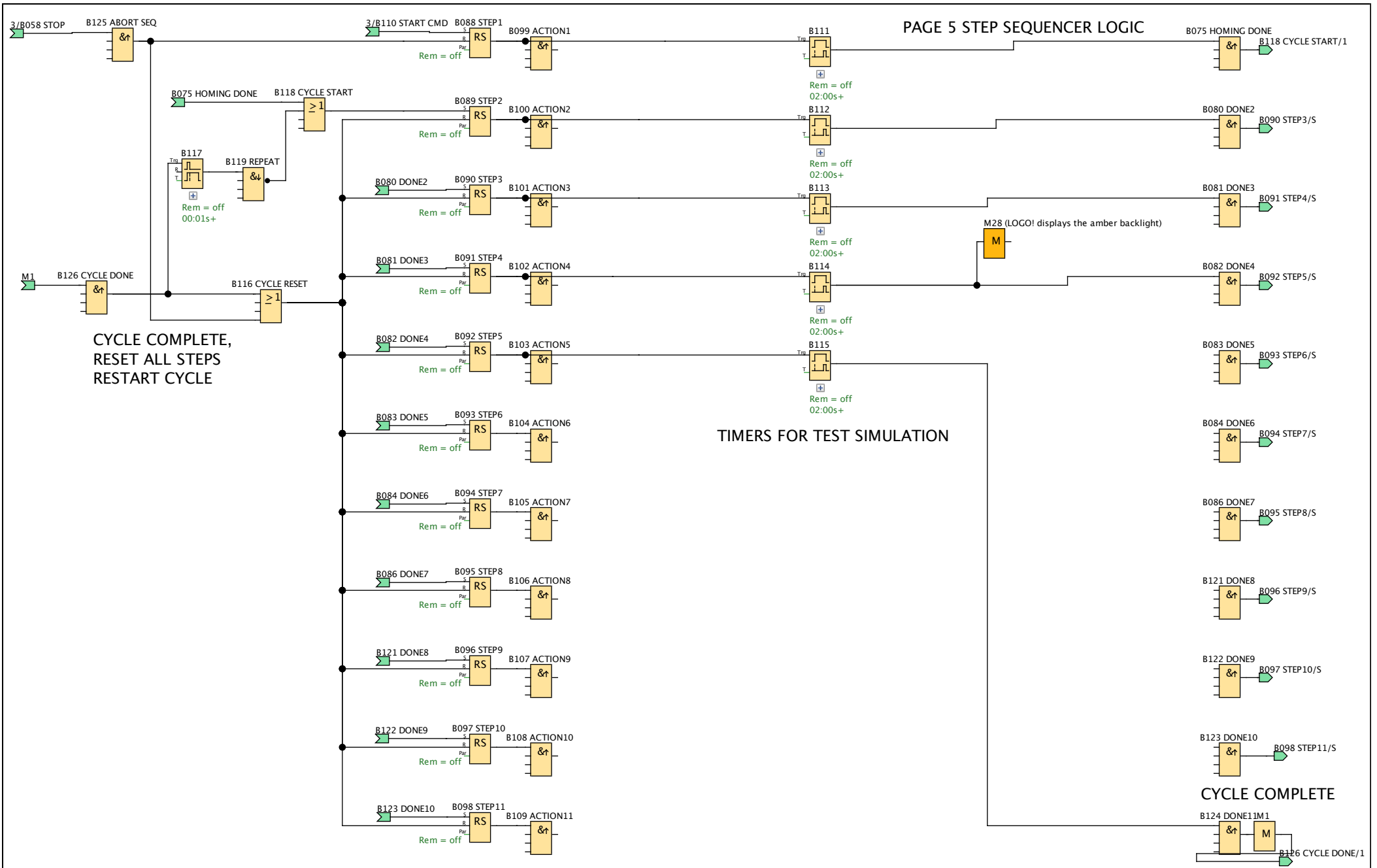
STEP 6. (MEASURE PEEP) RECORD PEEP PRESSURE

STEP 7. (PEEP) WAIT FOR PRESSURE TO DROP BELOW TRIGGER THRESHOLD  
TO INITIATE NEXT BREATH, OR GO TO NEXT STEP AFTER XXX SEC.

STEP 8. GO TO STEP 2

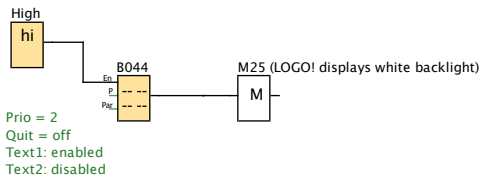
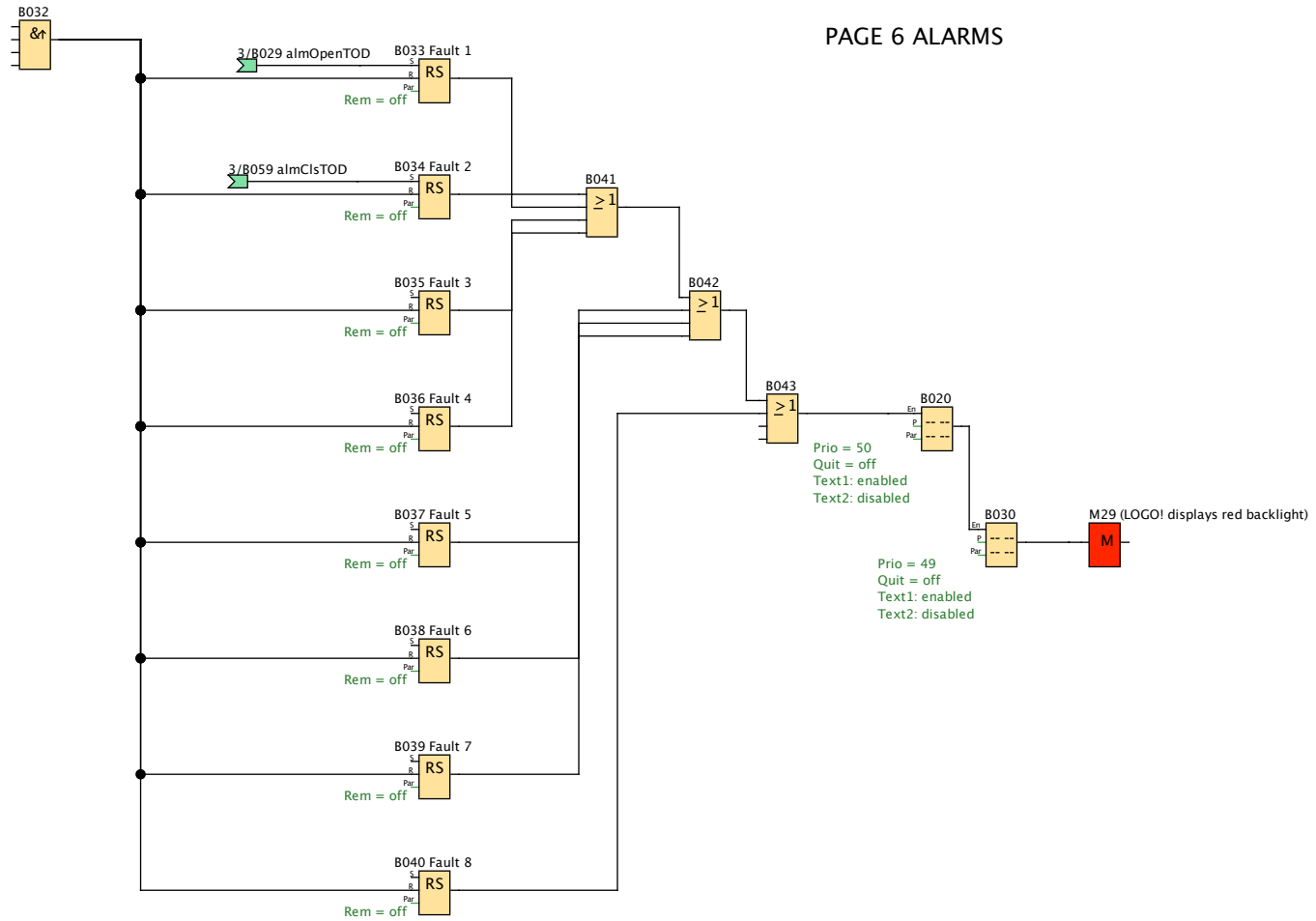


|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 4 / 29     |



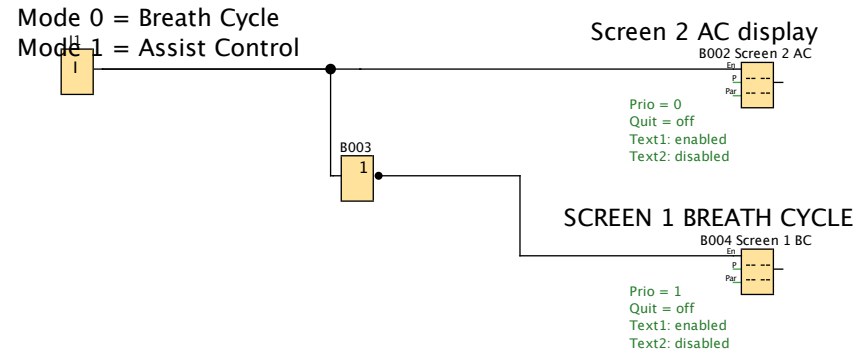
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|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 5 / 29     |

PAGE 6 ALARMS



|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 6 / 29     |

PAGE 7 MODE SELECT

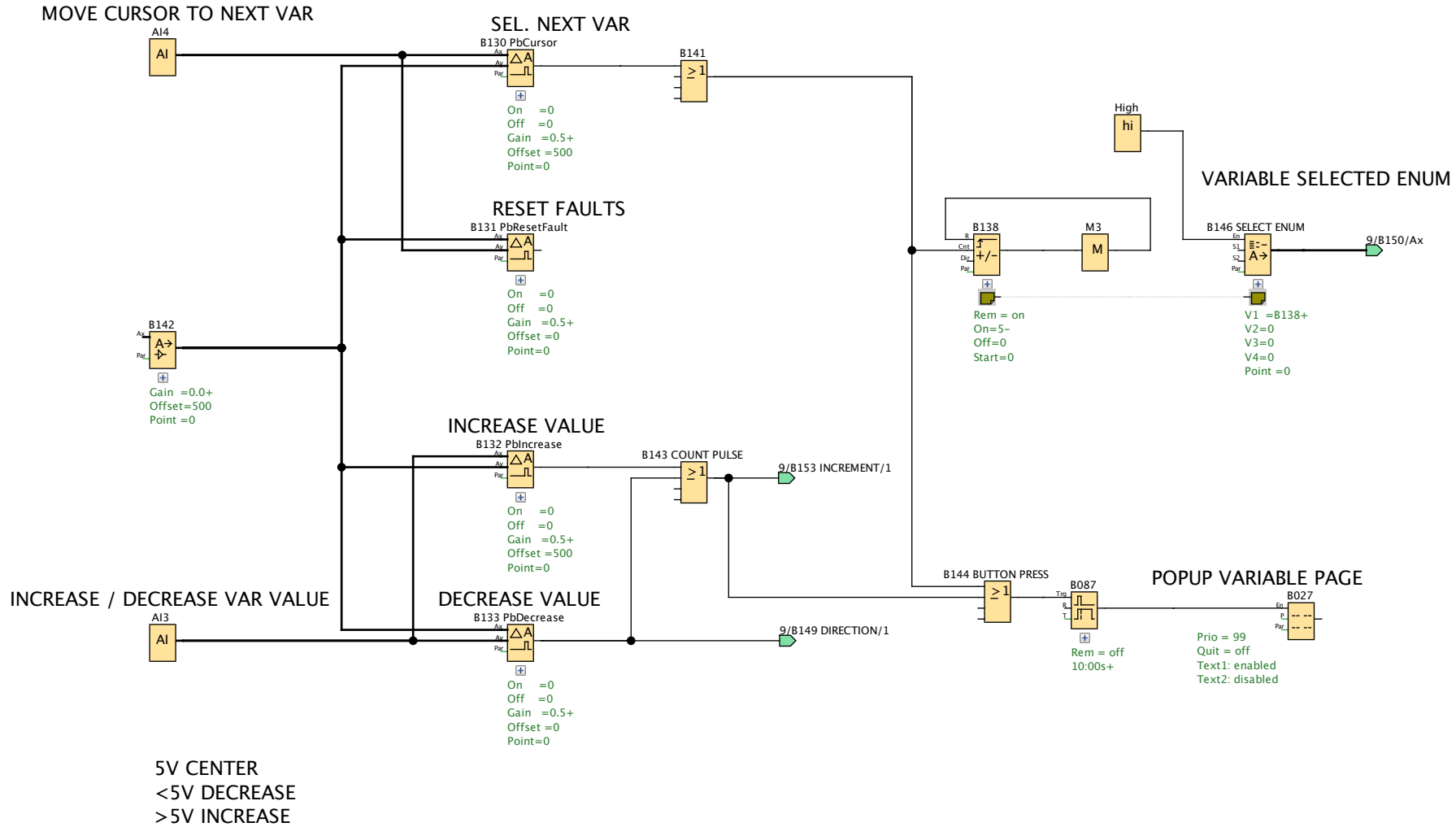


Add counter for total breathing cycles since start  
 Add counter for pressure triggered breathing cycles since start  
 Add lifetime breathing cycles

|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 7 / 29     |

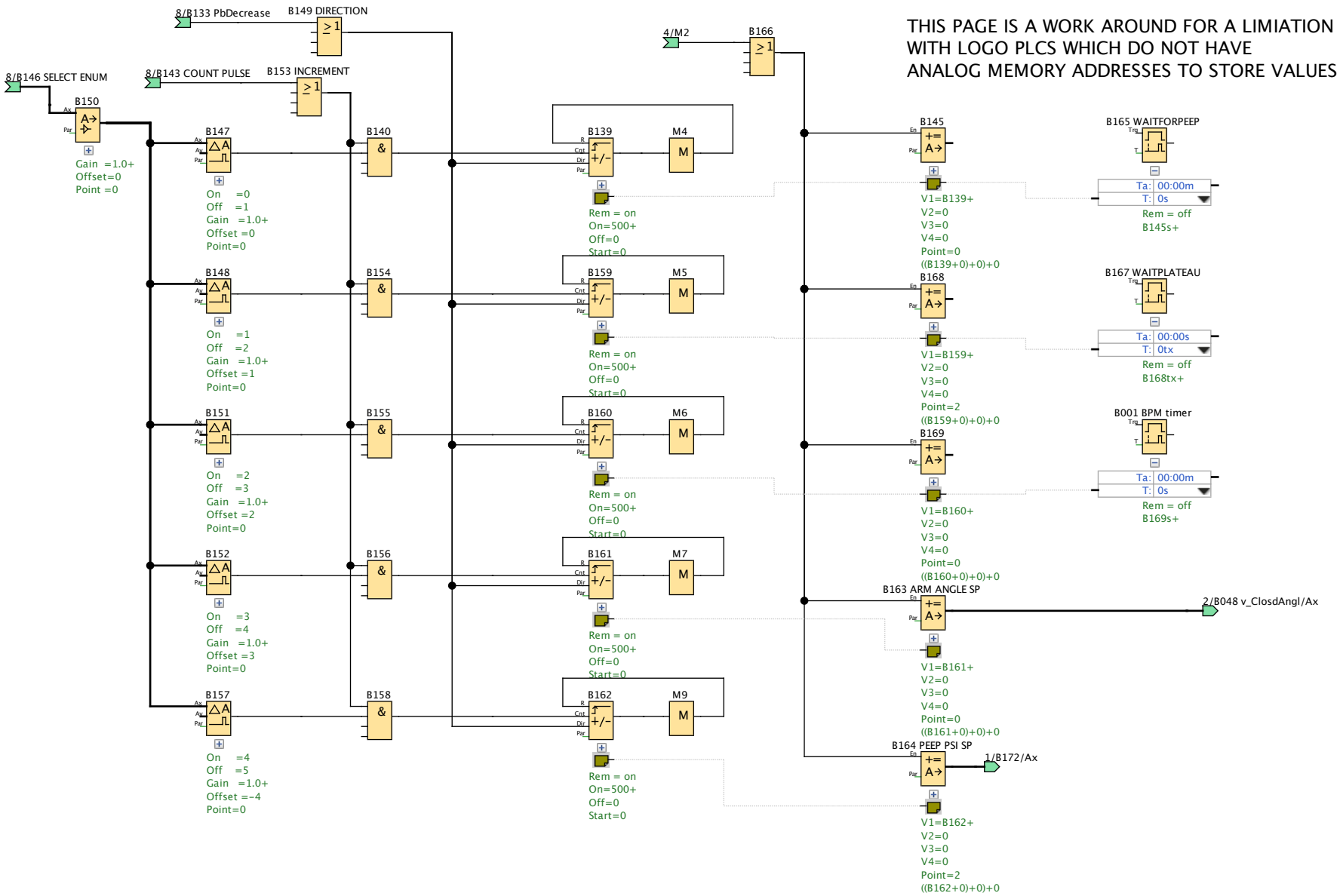
PAGE 8 4 WAY JOYSTICK CONTROL FOR MOVING CURSOR AND INCREASING DECREASING VARIABLE VALUES

ANALOG INPUTS 1 & 2 HAVE 5 VOLTS APPLIED VIA RESISTOR VOLTAGE DIVIDER  
 SHORT INPUT TO GROUND PULLS INPUT TO 0  
 SHORT INPUT TO 10V PULLS INPUT TO 1000  
 EFFECTIVELY WE NOW HAVE 2 DIGITAL INPUTS USING 1 ANALOG INPUT



TRIM ADJUSTMENTS TO VOLUME PRESSURE TIMERS USING CURSOR LOGIC ON PREV PAGE

|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
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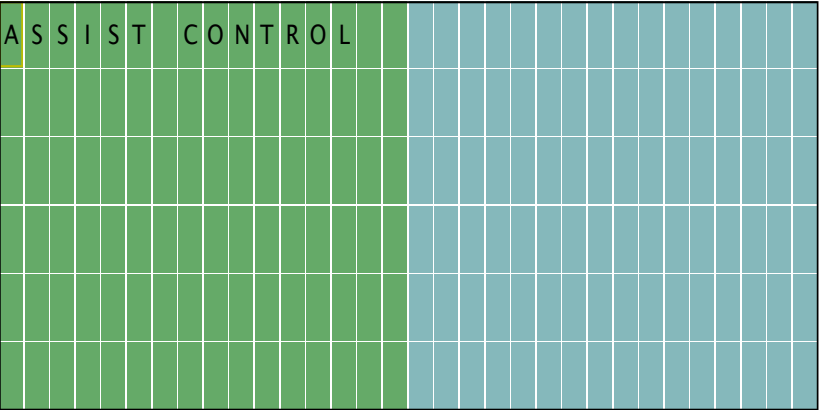


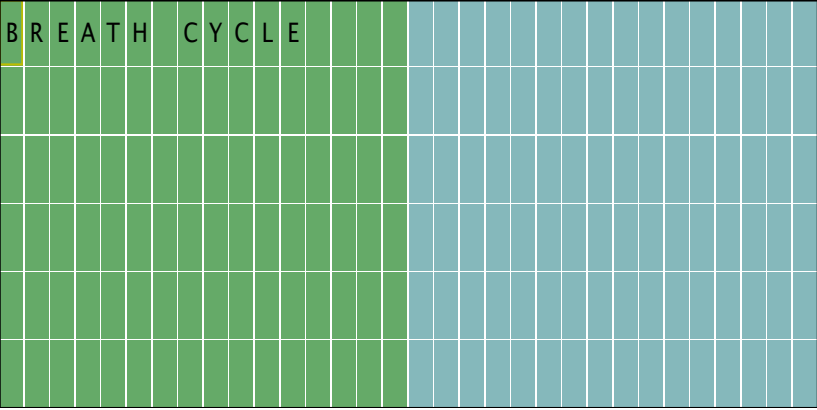
THIS PAGE IS A WORK AROUND FOR A LIMINATION WITH LOGO PLCs WHICH DO NOT HAVE ANALOG MEMORY ADDRESSES TO STORE VALUES

|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 9 / 29     |



|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM | File:         |                | Page:        | 10 / 29    |

| Block Number (Type)  | Parameter   |
|--|---|
| A11(Analog input) :<br>Pressure 0-10V 0-1.45psi  |   |
| A12(Analog input) :<br>ARM ANGLE 0-5V = 0-180 DEG  |   |
| A13(Analog input) :<br>INCREASE / DECREASE VAR VALUE   |   |
| A14(Analog input) :<br>MOVE CURSOR TO NEXT VAR   |   |
| B001 BPM timer(On-Delay) :   | Rem = off<br>B169s+   |
| B002 Screen 2 AC(Message texts) :<br>Screen 2 AC display<br><br> | Prio = 0<br>Quit = off<br>Text1: enabled<br>Text2: disabled<br><br>--> Ticker setting<br>- CBC<br>- Line1: N<br>- Line2: N<br>- Line3: N<br>- Line4: N<br>- Line5: N<br>- Line6: N<br>Message Destination<br>- Both |

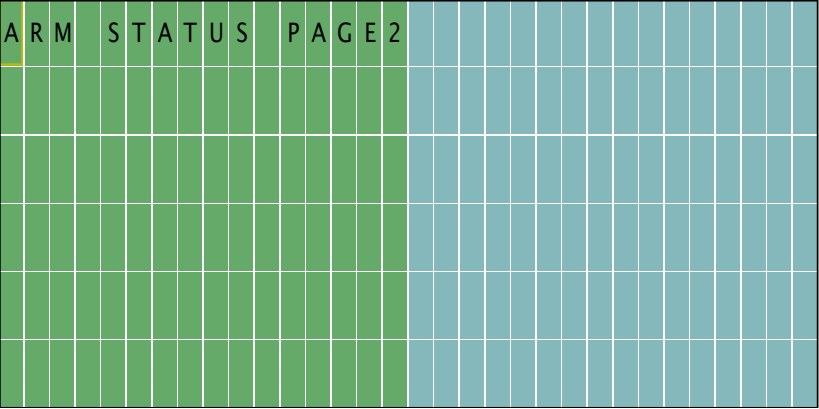
| Block Number (Type)  | Parameter   |
|--|---|
| <p>B004 Screen 1 BC(Message texts) :<br/>SCREEN 1 BREATH CYCLE</p>  | <p>Prio = 1<br/>Quit = off<br/>Text1: enabled<br/>Text2: disabled</p> <p>--&gt; Ticker setting<br/>- CBC<br/>- Line1: N<br/>- Line2: N<br/>- Line3: N<br/>- Line4: N<br/>- Line5: N<br/>- Line6: N<br/>Message Destination<br/>- Both</p> |
| <p>B005 fb_PSI(Analog Amplifier) :</p>   | <p>Gain =0.19+<br/>Offset=-37<br/>Point =2</p>  |
| <p>B006(Analog Comparator) :</p>   | <p>On =0<br/>Off =0<br/>Gain =1.0+<br/>Offset =0<br/>Point=0</p>  |
| <p>B007(Analog Amplifier) :</p>  | <p>Gain =1.0+<br/>Offset=0<br/>Point =0</p>   |
| <p>B008(Analog Comparator) :</p>   | <p>On =0<br/>Off =0<br/>Gain =1.0+<br/>Offset =0<br/>Point=0</p>  |

|          |                                |  |               |                |              |            |
|----------|--------------------------------|--|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   |  | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                |  | Installation: |                | Diagram No.: |            |
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| Block Number (Type)   | Parameter   |
|---|---|
| B009(Analog Comparator) :                                     | On =0<br>Off =0<br>Gain =1.0+<br>Offset =0<br>Point=0   |
| B010(Analog Comparator) :                                     | On =0<br>Off =0<br>Gain =1.0+<br>Offset =0<br>Point=0   |
| B011 v_HiLimPSI(Analog Amplifier) :                           | Gain =1.0+<br>Offset=140<br>Point =0                    |
| B012 v_HiLimAngle(Mathematic instruction) :                   | V1=0+<br>V2=0<br>V3=0<br>V4=0<br>Point=0<br>((0+0)+0)+0 |
| B013 v_LoLimPSI(Analog Amplifier) :                           | Gain =1.0+<br>Offset=2<br>Point =0                      |
| B014 v_LoLimAngle(Mathematic instruction) :                   | V1=0+<br>V2=0<br>V3=0<br>V4=0<br>Point=0<br>((0+0)+0)+0 |
| B015 PEEP START P(Max/Min) :<br>RECORD PEEP STARTING PRESSURE | Rem = off<br>Mode = 3<br>ResetMaxMin = false            |

|  |  |  |  |  |  |
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|----------|--------------------------------|--|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   |  | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                |  | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM |  | File:         |                | Page:        | 13 / 29    |

| Block Number (Type)  | Parameter   |
|--|---|
| <p>B016(Message texts) :</p>  | <p>Prio = 4<br/> Quit = off<br/> Text1: enabled<br/> Text2: disabled</p> <p>--&gt; Ticker setting<br/> - CBC<br/> - Line1: N<br/> - Line2: N<br/> - Line3: N<br/> - Line4: N<br/> - Line5: N<br/> - Line6: N<br/> Message Destination<br/> - Both</p> |

|          |                                |  |               |                |              |            |
|----------|--------------------------------|--|---------------|----------------|--------------|------------|
| Creator: | Eric Tischer                   |  | Project:      | DIY Ventilator | Customer:    | OpenSource |
| Checked: |                                |  | Installation: |                | Diagram No.: |            |
| Date:    | 3/28/20 2:00 PM/4/1/20 3:30 PM |  | File:         |                | Page:        | 14 / 29    |



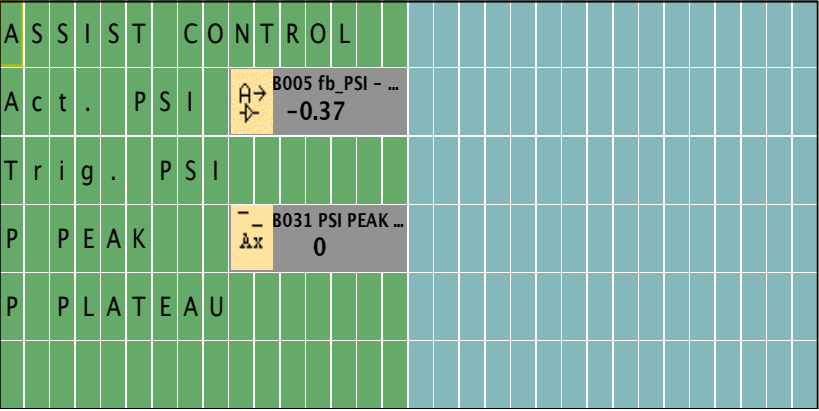
| Block Number (Type)   | Parameter                      |     |               |                |              |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
|---|--------------------------------|-----|---------------|----------------|--------------|------------|-----------|--|--|--|--|--|------|-------|-----|-----------|------|-------|-----|-----------|--|--|--|--|------|-------|-----|-----------|------|-------|-----|-----------|--|--|--|--|------|-------|-----|-----------|------|-------|-----|-----------|--|--|--|--|------|-------|-----|-----------|--|--|--|--|--|--|--|--|------|-------|-----|-----------|--|--|--|--|--|--|--|--|--|
| <p>B018(Message texts) :</p> <table border="1"> <thead> <tr> <th colspan="12">- STEP SEQUENCE - -</th> </tr> </thead> <tbody> <tr> <td>B088</td> <td>STEP1</td> <td>...</td> <td>1:HOMED *</td> <td>B093</td> <td>STEP6</td> <td>...</td> <td>1:STEP 6*</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B089</td> <td>STEP2</td> <td>...</td> <td>1:STEP 2*</td> <td>B094</td> <td>STEP7</td> <td>...</td> <td>1:STEP 7*</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B090</td> <td>STEP3</td> <td>...</td> <td>1:STEP 3*</td> <td>B095</td> <td>STEP8</td> <td>...</td> <td>1:STEP 8*</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B091</td> <td>STEP4</td> <td>...</td> <td>1:STEP 4*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B092</td> <td>STEP5</td> <td>...</td> <td>1:STEP 5*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Line2.1 IOStatus: B088 STEP1;Off="step 1";On="HOMED **"<br/> Line2.10 IOStatus: B093 STEP6;Off="step 6";On="STEP 6**"<br/> Line3.1 IOStatus: B089 STEP2;Off="step 2";On="STEP 2**"<br/> Line3.10 IOStatus: B094 STEP7;Off="STEP 7";On="STEP 7**"<br/> Line4.1 IOStatus: B090 STEP3;Off="step 3";On="STEP 3**"<br/> Line4.10 IOStatus: B095 STEP8;Off="step 8";On="STEP 8**"<br/> Line5.1 IOStatus: B091 STEP4;Off="step 4";On="STEP 4**"<br/> Line6.1 IOStatus: B092 STEP5;Off="step 5";On="STEP 5**"</p> | - STEP SEQUENCE - -            |     |               |                |              |            |           |  |  |  |  |  | B088 | STEP1 | ... | 1:HOMED * | B093 | STEP6 | ... | 1:STEP 6* |  |  |  |  | B089 | STEP2 | ... | 1:STEP 2* | B094 | STEP7 | ... | 1:STEP 7* |  |  |  |  | B090 | STEP3 | ... | 1:STEP 3* | B095 | STEP8 | ... | 1:STEP 8* |  |  |  |  | B091 | STEP4 | ... | 1:STEP 4* |  |  |  |  |  |  |  |  | B092 | STEP5 | ... | 1:STEP 5* |  |  |  |  |  |  |  |  | <p>Prio = 40<br/> Quit = off<br/> Text1: enabled<br/> Text2: disabled</p> <p>--&gt; Ticker setting<br/> - CBC<br/> - Line1: N<br/> - Line2: N<br/> - Line3: N<br/> - Line4: N<br/> - Line5: N<br/> - Line6: N<br/> Message Destination<br/> - Both</p> |
| - STEP SEQUENCE - -   |                                |     |               |                |              |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| B088  | STEP1                          | ... | 1:HOMED *     | B093           | STEP6        | ...        | 1:STEP 6* |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| B089  | STEP2                          | ... | 1:STEP 2*     | B094           | STEP7        | ...        | 1:STEP 7* |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| B090  | STEP3                          | ... | 1:STEP 3*     | B095           | STEP8        | ...        | 1:STEP 8* |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| B091  | STEP4                          | ... | 1:STEP 4*     |                |              |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| B092  | STEP5                          | ... | 1:STEP 5*     |                |              |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| <p>B019 ALM_ARM_TIME(On-Delay) :<br/> TIMEOUT ARM MOVEMENT</p>  | <p>Rem = off<br/> 00:00s+</p>  |     |               |                |              |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
|   |                                |     |               |                |              |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| Creator:  | Eric Tischer                   |     | Project:      | DIY Ventilator | Customer:    | OpenSource |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| Checked:  |                                |     | Installation: |                | Diagram No.: |            |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |
| Date:   | 3/28/20 2:00 PM/4/1/20 3:30 PM |     | File:         |                | Page:        | 16 / 29    |           |  |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |      |       |     |           |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |      |       |     |           |  |  |  |  |  |  |  |  |  |



| Block Number (Type)  | Parameter                    |                       |    |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
|--|------------------------------|-----------------------|----|--|----------|-------------------------|-----------------------|----|----------|----------------------------|-----------------------|----|----------|-------------------------|-----------------------|----|----------|------------------------|-----------------------|----|---------|-----------------------------|-----------------------|----|--|
| <p>B027(Message texts) :<br/>POPUP VARIABLE PAGE</p> <table border="1"> <thead> <tr> <th colspan="4">MODIFY VARIABLES</th> </tr> </thead> <tbody> <tr> <td>PeepTime</td> <td>+ B145 - Aq amp...<br/>0</td> <td>B147 [Analog C... 1:*</td> <td>0:</td> </tr> <tr> <td>PleatEAU</td> <td>+ B168 - Aq amp...<br/>0.00</td> <td>B148 [Analog C... 1:*</td> <td>0:</td> </tr> <tr> <td>CycleSec</td> <td>+ B169 - Aq amp...<br/>0</td> <td>B151 [Analog C... 1:*</td> <td>0:</td> </tr> <tr> <td>Volume %</td> <td>+ B163 ARM ANG...<br/>0</td> <td>B152 [Analog C... 1:*</td> <td>0:</td> </tr> <tr> <td>PeepPSI</td> <td>+ B164 PEEP PSI ...<br/>0.00</td> <td>B157 [Analog C... 1:*</td> <td>0:</td> </tr> </tbody> </table> <p>Line2.9 B145-Aq<br/>Line2.16 IOStatus: B147;Off="";On="*"<br/>Line3.9 B168-Aq<br/>Line3.16 IOStatus: B148;Off="";On="*"<br/>Line4.9 B169-Aq<br/>Line4.16 IOStatus: B151;Off="";On="*"<br/>Line5.9 B163 ARM ANGLE SP-Aq<br/>Line5.16 IOStatus: B152;Off="";On="*"<br/>Line6.9 B164 PEEP PSI SP-Aq<br/>Line6.16 IOStatus: B157;Off="";On="*"</p> | MODIFY VARIABLES             |                       |    |  | PeepTime | + B145 - Aq amp...<br>0 | B147 [Analog C... 1:* | 0: | PleatEAU | + B168 - Aq amp...<br>0.00 | B148 [Analog C... 1:* | 0: | CycleSec | + B169 - Aq amp...<br>0 | B151 [Analog C... 1:* | 0: | Volume % | + B163 ARM ANG...<br>0 | B152 [Analog C... 1:* | 0: | PeepPSI | + B164 PEEP PSI ...<br>0.00 | B157 [Analog C... 1:* | 0: | <p>Prio = 99<br/>Quit = off<br/>Text1: enabled<br/>Text2: disabled</p> <p>--&gt; Ticker setting<br/>- CBC<br/>- Line1: N<br/>- Line2: N<br/>- Line3: N<br/>- Line4: N<br/>- Line5: N<br/>- Line6: N<br/>Message Destination<br/>- Both</p> |
| MODIFY VARIABLES   |                              |                       |    |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
| PeepTime   | + B145 - Aq amp...<br>0      | B147 [Analog C... 1:* | 0: |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
| PleatEAU   | + B168 - Aq amp...<br>0.00   | B148 [Analog C... 1:* | 0: |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
| CycleSec   | + B169 - Aq amp...<br>0      | B151 [Analog C... 1:* | 0: |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
| Volume %   | + B163 ARM ANG...<br>0       | B152 [Analog C... 1:* | 0: |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
| PeepPSI  | + B164 PEEP PSI ...<br>0.00  | B157 [Analog C... 1:* | 0: |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |
| <p>B029 almOpenTOD(On-Delay) :</p>   | <p>Rem = off<br/>05:00s+</p> |                       |    |  |          |                         |                       |    |          |                            |                       |    |          |                         |                       |    |          |                        |                       |    |         |                             |                       |    |  |

|          |                                |               |                |              |            |
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| Block Number (Type)  | Parameter  |
|--|--|
| B038 Fault 6(Latching Relay) :   | Rem = off  |
| B039 Fault 7(Latching Relay) :   | Rem = off  |
| B040 Fault 8(Latching Relay) :   | Rem = off  |
| <p>B044(Message texts) :</p>  <p>Line2.10 B005 fb_PSI-Ax<br/>Line4.10 B031 PSI PEAK-Max</p> | <p>Prio = 2<br/>Quit = off<br/>Text1: enabled<br/>Text2: disabled</p> <p>--&gt; Ticker setting<br/>- CBC<br/>- Line1: N<br/>- Line2: N<br/>- Line3: N<br/>- Line4: N<br/>- Line5: N<br/>- Line6: N</p> <p>Message Destination<br/>- Both</p> |

|          |                                |  |               |                |              |            |
|----------|--------------------------------|--|---------------|----------------|--------------|------------|
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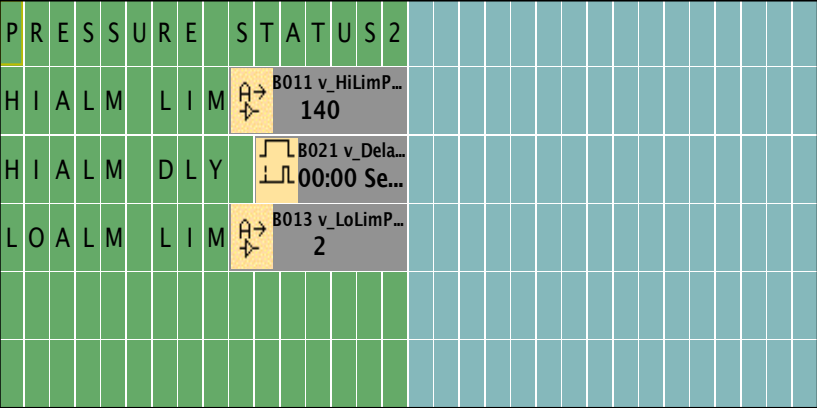


| Block Number (Type)                                  | Parameter   |
|--|---|
| B049(Analog Comparator) :                            | On =0<br>Off =0<br>Gain =1.0+<br>Offset =0<br>Point=0 |
| B050(Analog Comparator) :                            | On =0<br>Off =0<br>Gain =1.0+<br>Offset =0<br>Point=0 |
| B051(Analog Comparator) :                            | On =0<br>Off =0<br>Gain =1.0+<br>Offset =0<br>Point=0 |
| B053(Latching Relay) :                               | Rem = off   |
| B054(Latching Relay) :                               | Rem = off   |
| B059 almClstOD(On-Delay) :                           | Rem = off<br>05:00s+                                  |
| B062 ARM IS OPEN(Latching Relay) :<br>ARM IS OPEN    | Rem = off   |
| B063 ARM IS CLOSD(Latching Relay) :<br>ARM IS CLOSED | Rem = off   |
| B087(Off-Delay) :                                    | Rem = off<br>10:00s+                                  |
| B088 STEP1(Latching Relay) :                         | Rem = off   |
| B089 STEP2(Latching Relay) :                         | Rem = off   |
| B090 STEP3(Latching Relay) :                         | Rem = off   |

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| Block Number (Type)                                    | Parameter                                    |
|--|--|
| B091 STEP4(Latching Relay) :                           | Rem = off                                    |
| B092 STEP5(Latching Relay) :                           | Rem = off                                    |
| B093 STEP6(Latching Relay) :                           | Rem = off                                    |
| B094 STEP7(Latching Relay) :                           | Rem = off                                    |
| B095 STEP8(Latching Relay) :                           | Rem = off                                    |
| B096 STEP9(Latching Relay) :                           | Rem = off                                    |
| B097 STEP10(Latching Relay) :                          | Rem = off                                    |
| B098 STEP11(Latching Relay) :                          | Rem = off                                    |
| B111(On-Delay) :                                       | Rem = off<br>02:00s+                         |
| B112(On-Delay) :                                       | Rem = off<br>02:00s+                         |
| B113(On-Delay) :                                       | Rem = off<br>02:00s+                         |
| B114(On-Delay) :                                       | Rem = off<br>02:00s+                         |
| B115(On-Delay) :                                       | Rem = off<br>02:00s+                         |
| B117(Off-Delay) :                                      | Rem = off<br>00:01s+                         |
| B128 PSI PLATEAU(Max/Min) :<br>RECORD PLATEAU PRESSURE | Rem = off<br>Mode = 0<br>ResetMaxMin = false |

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| Block Number (Type)  | Parameter   |
|--|---|
| <p>B129(Message texts) :</p>  <p>Line2.10 B011 v_HiLimPSI-Ax<br/>Line3.11 B021 v_DelayHiPSI-TRest<br/>Line4.10 B013 v_LoLimPSI-Ax</p> | <p>Prio = 7<br/>Quit = off<br/>Text1: enabled<br/>Text2: disabled</p> <p>--&gt; Ticker setting<br/>- CBC<br/>- Line1: N<br/>- Line2: N<br/>- Line3: N<br/>- Line4: N<br/>- Line5: N<br/>- Line6: N<br/>Message Destination<br/>- Both</p> |

|   |  |
|---|--|
| <p>B130 PbCursor(Analog Comparator) :<br/>SEL. NEXT VAR</p> | <p>On =0<br/>Off =0<br/>Gain =0.5+<br/>Offset =500<br/>Point=0</p> |
|---|--|

|  |  |
|--|--|
| <p>B131 PbResetFault(Analog Comparator) :<br/>RESET FAULTS</p> | <p>On =0<br/>Off =0<br/>Gain =0.5+<br/>Offset =0<br/>Point=0</p> |
|--|--|

|  |  |
|--|--|
| <p>B132 PbIncrease(Analog Comparator) :<br/>INCREASE VALUE</p> | <p>On =0<br/>Off =0<br/>Gain =0.5+<br/>Offset =500<br/>Point=0</p> |
|--|--|

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| Block Number (Type)                                      | Parameter   |
|--|---|
| B133 PbDecrease(Analog Comparator) :<br>DECREASE VALUE   | On =0<br>Off =0<br>Gain =0.5+<br>Offset =0<br>Point=0         |
| B134(On-Delay) :   | Rem = off<br>00:50s+  |
| B135(On-Delay) :   | Rem = off<br>00:50s+  |
| B138(Up/Down counter) :                                  | Rem = on<br>On=5-<br>Off=0<br>Start=0                         |
| B139(Up/Down counter) :                                  | Rem = on<br>On=500+<br>Off=0<br>Start=0                       |
| B142(Analog Amplifier) :                                 | Gain =0.0+<br>Offset=500<br>Point =0                          |
| B145(Mathematic instruction) :                           | V1=B139+<br>V2=0<br>V3=0<br>V4=0<br>Point=0<br>((B139+0)+0)+0 |
| B146 SELECT ENUM(Analog MUX) :<br>VARIABLE SELECTED ENUM | V1 =B138+<br>V2=0<br>V3=0<br>V4=0<br>Point =0                 |

|          |                                |               |                |              |            |
|----------|--------------------------------|---------------|----------------|--------------|------------|
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| Block Number (Type)       | Parameter  |
|---------------------------|--|
| B147(Analog Comparator) : | On =0<br>Off =1<br>Gain =1.0+<br>Offset =0<br>Point=0  |
| B148(Analog Comparator) : | On =1<br>Off =2<br>Gain =1.0+<br>Offset =1<br>Point=0  |
| B150(Analog Amplifier) :  | Gain =1.0+<br>Offset=0<br>Point =0                     |
| B151(Analog Comparator) : | On =2<br>Off =3<br>Gain =1.0+<br>Offset =2<br>Point=0  |
| B152(Analog Comparator) : | On =3<br>Off =4<br>Gain =1.0+<br>Offset =3<br>Point=0  |
| B157(Analog Comparator) : | On =4<br>Off =5<br>Gain =1.0+<br>Offset =-4<br>Point=0 |
| B159(Up/Down counter) :   | Rem = on<br>On=500+<br>Off=0<br>Start=0                |

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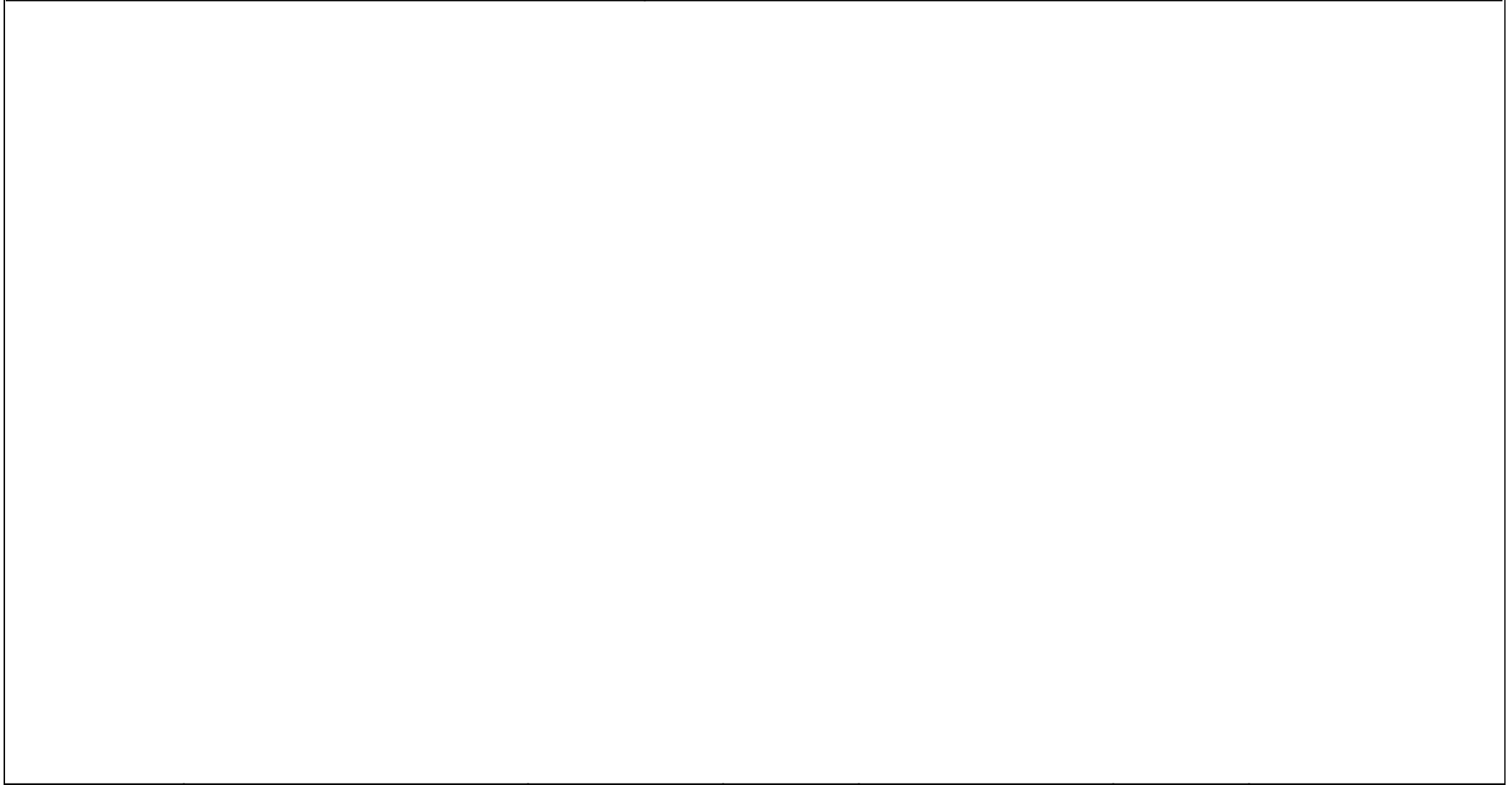
| Block Number (Type)                         | Parameter   |
|---|---|
| B160(Up/Down counter) :                     | Rem = on<br>On=500+<br>Off=0<br>Start=0                       |
| B161(Up/Down counter) :                     | Rem = on<br>On=500+<br>Off=0<br>Start=0                       |
| B162(Up/Down counter) :                     | Rem = on<br>On=500+<br>Off=0<br>Start=0                       |
| B163 ARM ANGLE SP(Mathematic instruction) : | V1=B161+<br>V2=0<br>V3=0<br>V4=0<br>Point=0<br>((B161+0)+0)+0 |
| B164 PEEP PSI SP(Mathematic instruction) :  | V1=B162+<br>V2=0<br>V3=0<br>V4=0<br>Point=2<br>((B162+0)+0)+0 |
| B165 WAITFORPEEP(On-Delay) :                | Rem = off<br>B145s+   |
| B167 WAITPLATEAU(On-Delay) :                | Rem = off<br>B168tx+  |
| B168(Mathematic instruction) :              | V1=B159+<br>V2=0<br>V3=0<br>V4=0<br>Point=2<br>((B159+0)+0)+0 |

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| Block Number (Type)   | Parameter   |
|---|---|
| B169(Mathematic instruction) :                                  | V1=B160+<br>V2=0<br>V3=0<br>V4=0<br>Point=0<br>((B160+0)+0)+0 |
| B171 INH DETECTED(Analog Comparator) :<br>INHALE DETECTED       | On =B172<br>Off =0<br>Gain =1.0+<br>Offset =0<br>Point=0      |
| B172(Analog Amplifier) :<br>PEEP PRESSURE DROP TRIGGER PSI      | Gain =1.0+<br>Offset=0<br>Point =2                            |
| I1(Input) :<br>Mode 0 = Breath Cycle<br>Mode 1 = Assist Control |   |
| I2(Input) :<br>RUN PB   |   |
| I3(Input) :<br>MAN. OPEN PB                                     |   |
| I4(Input) :<br>MAN. CLOSE PB                                    |   |
| I5(Input) :<br>ESTOP PB   |   |
| M1(Flag) :<br>CYCLE COMPLETE                                    |   |
| M2(Flag) :<br>TICKTOCK  |   |

|          |                                |               |                |              |            |
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| Block Number (Type)       | Parameter |
|---------------------------|-----------|
| Q1(Output) :<br>OPEN ARM  |           |
| Q2(Output) :<br>CLOSE ARM |           |



|          |                                |  |               |                |              |            |
|----------|--------------------------------|--|---------------|----------------|--------------|------------|
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