ALARMS

0000
```
         ┌───────JSR───────┐
         │ Jump To Subroutine │
         │ SBR File Number    U:3 │
         └──────────────────┘
```

DIGITAL IO

0001
```
         ┌───────JSR───────┐
         │ Jump To Subroutine │
         │ SBR File Number    U:4 │
         └──────────────────┘
```

ANALOG IO

0002
```
         ┌───────JSR───────┐
         │ Jump To Subroutine │
         │ SBR File Number    U:5 │
         └──────────────────┘
```

CONTROLS

0003
```
         ┌───────JSR───────┐
         │ Jump To Subroutine │
         │ SBR File Number    U:6 │
         └──────────────────┘
```

0004
```
                                    ⟨ END ⟩
```

Low Low Level Alarm/Notification Setup

0000

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL
```
┌─LES──────────────┐
│ Less Than (A<B)  │
│ Source A    N7:0 │
│               0< │
│ Source B      15 │
│              15< │
└──────────────────┘
```

LL Level Alarm Delay
Timer
```
┌─TON──────────────────┐      ⟨EN⟩
│ Timer On Delay        │
│ Timer          T4:2   │
│ Time Base      1.0    │      ⟨DN⟩
│ Preset          5<    │
│ Accum           0<    │
└───────────────────────┘
```

LL Level Alarm Delay
Timer
T4:2
┤ ├
DN

LL OSR
```
┌─OSR──────────────────┐
│ One Shot Rising       │
│ Storage Bit     B3/3  │
│ Output Bit      B3/7  │
└───────────────────────┘
```

0001

LL Level Alarm Delay
Timer
T4:2
┤ ├
DN

LL ALARM
LL_ALARM
B3
┤ ├
0

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL
```
┌─LES──────────────┐
│ Less Than (A<B)  │
│ Source A    N7:0 │
│               0< │
│ Source B      20 │
│              20< │
└──────────────────┘
```

LL ALARM
LL_ALARM
B3
⟨ ⟩
0

0002

LL OSR Output Bit
B3
┤ ├
7

LL NOTIFICATION
L_NOTIFY
B3
┤ ├
1

ALARM RESET BTN
ALARM_RESET
B3
┤/├
2

LL NOTIFICATION
L_NOTIFY
B3
⟨ ⟩
1

High High Level Alarm/Notification Setup

Logic for alarm trigger

0003

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL

```
┌─────GRT─────────────┐
│ Greater Than (A>B)  │
│ Source A      N7:0  │
│                  0< │
│ Source B        85  │
│                 85< │
└─────────────────────┘
```

HH Level Alarm Delay Timer

```
┌─────TON─────────────┐     ─(EN)─
│ Timer On Delay      │
│ Timer        T4:3   │     ─(DN)─
│ Time Base     1.0   │
│ Preset          5<  │
│ Accum           0<  │
└─────────────────────┘
```

HH Level Alarm Delay Timer

T4:3
─┤ ├─
DN

HH OSR

```
┌─────OSR─────────────┐
│ One Shot Rising     │
│ Storage Bit    B3/9 │
│ Output Bit    B3/10 │
└─────────────────────┘
```

DCL for High High Alarm

0004

HH Level Alarm Delay Timer

T4:3
─┤ ├─
DN

HH LEVEL ALARM
B3
─( )─
8

HH LEVEL ALARM
B3
─┤ ├─
8

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL

```
┌─────GRT─────────────┐
│ Greater Than (A>B)  │
│ Source A      N7:0  │
│                  0< │
│ Source B        75  │
│                 75< │
└─────────────────────┘
```

DCL for High High Alarm Notification

0005

HH OSR OUTPUT BIT
B3
─┤ ├─
10

HH NOTIFICATION
B3
─( )─
11

HH NOTIFICATION
B3
─┤ ├─
11

ALARM RESET BTN
ALARM_RESET
B3
─┤/├─
2

0006
─────────────────────────────────────(END)─

```
                VALVE                                                              VALVE
                VALVE                                                              O:2.0
                 B3                                                                 ( )
0000           ──┤ ├──                                                              0
                  5                                                              1762-OW8


                PUMP                                                               PUMP
                PUMP                                                               O:2.0
                 B3                                                                 ( )
0001           ──┤ ├──                                                              1
                  4                                                              1762-OW8


0002                                                                              ( END )
```

0000

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL

```
                                    ┌──────SCP──────┐
                                    │ Scale w/Parameters      │
                                    │ Input          I:3.0    │
                                    │                    0<   │
                                    │ Input Min.         0    │
                                    │                    0<   │
                                    │ Input Max.     16383    │
                                    │                16383<   │
                                    │ Scaled Min.        0    │
                                    │                    0<   │
                                    │ Scaled Max.      100    │
                                    │                  100<   │
                                    │ Output          N7:0    │
                                    │                    0<   │
                                    └─────────────────────────┘
```

0001 ───⟨ END ⟩──────

0000

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL

LES
Less Than (A<B)
Source A   N7:0
                    0<
Source B   20
                   20<

Fill mode delay
timer

TON
Timer On Delay   —⟨EN⟩
Timer   T4:0
Time Base   1.0   —⟨DN⟩
Preset   10<
Accum   0<

0001

LEVEL
LL = 15%
L = 20%
H = 80%
HH = 85%
LEVEL

GRT
Greater Than (A>B)
Source A   N7:0
                    0<
Source B   80
                   80<

Drain Mode Delay
Timer

TON
Timer On Delay   —⟨EN⟩
Timer   T4:1
Time Base   1.0   —⟨DN⟩
Preset   10<
Accum   0<

0002

Fill mode delay
timer
T4:0
——] [——
DN

Fill Mode = 1
Drain Mode = 0
FILL_MODE
B3
——] [——
6

Drain Mode Delay
Timer
T4:1
——]/[——
DN

Fill Mode = 1
Drain Mode = 0
FILL_MODE
B3
——⟨ ⟩——
6

0003

Fill Mode = 1
Drain Mode = 0
FILL_MODE
B3
——] [——
6

HH LEVEL ALARM
B3
——]/[——
8

PUMP
PUMP
B3
——⟨ ⟩——
4

0004

Fill Mode = 1
Drain Mode = 0
FILL_MODE
B3
——]/[——
6

LL ALARM
LL_ALARM
B3
——]/[——
0

VALVE
VALVE
B3
——⟨ ⟩——
5

0005
——⟨END⟩——