

```
1 // UserConfiguration.h
2 //
3 //
4 /*=====
5 /*=====
6 /*=====  START USER CONFIGURATION FOR THE I/O  =====
7 /*=====
8 /*=====
9 //
10 // Define all used pins for the application.
11 //
12 // The range of digitals is commonly used. First to define the inputs,outputs and ultrasonics.
13 // The analog out en servo pins are in the PWN range of the board.
14 //
15 //
16 // Arduino Finite State Machine
17 // Copyright(C) 2018 Jelle Siemonsma
18 //
19 // This program is free software : you can redistribute it and/or modify
20 // it under the terms of the GNU General Public License as published by
21 // the Free Software Foundation, either version 3 of the License, or
22 // (at your option) any later version.
23 //
24 // This program is distributed in the hope that it will be useful,
25 // but WITHOUT ANY WARRANTY; without even the implied warranty of
26 // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
27 // GNU General Public License for more details.
28 //
29 // < https://www.gnu.org/licenses/>.
30 //
31 //
32 //
33 // %STARTGENERATION Generation directive, dont remove!
34 const byte NoInputPins = 2;
35 const byte NoOutputPins = 2;
```

```
36 const byte NoUltrasonic = 0;
37 const byte NoAnaInPins = 1;
38 const byte NoAnaOutPins = 0;
39 const byte NoServos = 0;
40 const byte NoTemp = 0;
41 String DummyTags[] = { "" };
42 String InputTags[] = { "MOV1", "SETREF" };
43 String InputPins[] = { "D22", "D23" };
44 String OutputTags[] = { "K1", "MeasActive" };
45 String OutputPins[] = { "D30", "D31" };
46 String AnaInTags[] = { "LDR1" };
47 String AnaInPins[] = { "AI00" };
48 String AnaOutTags[] = { "" };
49 String AnaOutPins[] = { "" };
50 String ServoTags[] = { "" };
51 String ServoPins[] = { "" };
52 String UltraTags[] = { "" };
53 String UltraPins[] = { "" };
54 const byte OneWireChannel = 0;
55 String TempTags[] = { "" };
56 String TempPins[] = { "" };
57 //%%ENDGENERATION Generation directive dont remove!
58 //
59 // Markers not yet implemented in the configurator
60 const byte NoMarkers = 3;
61 String MarkerTags[] = { "DARK", "TWILIGHT", "RANDOM-OFF" };
62 //
63 // Declaration of all used states in the FSM.
64 // The first and last state "START"and "END" are obligatory
65 // and may not be removed, the rest is up to you
66 //
67 //%%STARTGENERATION Generation directive, dont remove!
68 String PossibleFSMStates[] = { "START", "DAYLIGHT", "NIGHT", "CHKMOV", "MORNING", "EVENING", "TO-EVENING", "TO-NIGHT", "TO-
    MORNING", "SET", "SETREF", "END" };
69 //%%ENDGENERATION Generation directive, dont remove!
```

```
70 //
71 // Start defining User timers don't use predefined timers (stay out of range 200-300)
72 //
73 const byte timTask1 = 1;
74 const byte timTask2 = 2;
75 const byte timStable = 3;
76 const byte delK1 = 4;
77 const byte timSetRef1 = 5;
78 const byte timSetRef2 = 6;
79 const byte timSetRef3 = 7;
80 const byte timSetRef4 = 8;
81 //
82 // End defining user tinmers
83 //
84 // START USER SPECIFIC DECLARATIONS
85 //
86 // Start User varaibles:
87 //
88 boolean AanUit;
89 int ActHour;
90 int ActMinute;
91 int RdHour;
92 int RdMinute;
93 int Dark = 100;
94 int Twilight = 250;
95 int NumberMeas = 0;
96 float TotalDark = 0.0;
97 boolean Rst = false;
98 // End User varaibles
99 //
100 // use of the extra MEGA board for the messages, use MessageI2C and/or UseHMISerial, do not remove, only set true or false
101 //
102 // %STARTGENERATION Generation directive, dont remove!
103 boolean UseI2C = false;
104 boolean UseHMISerial = true;
```

```
105 boolean UseGPS = false;
106 boolean UseIntercard = false;
107 // %ENDGENERATION Generation directive, dont remove!
108 //
109 /*=====
110 /*=====
111 /*=====  END USER CONFIGURATION =====
112 /*=====
113 /*=====
114
```