

[illegible]

Logic
<p><b>Digital Filtering</b></p> <ul style="list-style-type: none"> <li>• <code>average3ZeroCrossDelay(pwrAvg)</code> unsigned short, in <code>pwrAvgArray</code>, unsigned short, in <code>YAxisNumberOfPwrAve</code> unsigned short, in <code>YAxis</code> (double)</li> </ul>
<p><b>BP Algorithm</b></p> <ul style="list-style-type: none"> <li>• <code>calcBisMAP(pwrAvg)</code> unsigned short, in <code>calcPwrAvg</code> unsigned short, in <code>pwrAvgArray</code>, unsigned short, in <code>YAxisNumberOfPwrAve</code> unsigned short</li> <li>• <code>calcBisTSP(pwrAvg)</code> unsigned short, in <code>calcPwrAvg</code> unsigned short, in <code>pwrAvgArray</code>, unsigned short, in <code>YAxisNumberOfPwrAve</code> unsigned short, in <code>MAP</code> unsigned short</li> <li>• <code>calcBisOC(pwrAvg)</code> unsigned short, in <code>calcPwrAvg</code> unsigned short, in <code>pwrAvgArray</code>, unsigned short, in <code>YAxisNumberOfPwrAve</code> unsigned short, in <code>MAP</code> unsigned short</li> </ul>
<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• <code>blockPwrAverageMAP</code> unsigned short, in <code>TSP</code>, unsigned short, in <code>YAxis</code> unsigned short, in type <code>BPAlgorithm</code>, in <code>pc</code> may be open, in all <code>DigitalFiltering</code>, in all <code>Utilities</code></li> </ul>
<p><b>Memory Parser</b></p> <ul style="list-style-type: none"> <li>• <code>GetRtOCIndex()</code> unsigned short</li> <li>• <code>GetRtOCIndex()</code> cell unsigned short</li> <li>• <code>GetTimeForCycle()</code> unsigned short</li> <li>• <code>GetTimeForCycle()</code> cell unsigned short</li> <li>• <code>writeToSDCardOnLineMemory</code> string, in <code>evaluationComplete</code> boolean, in <code>evaluationPwrAve</code> unsigned short, in <code>eye</code> unsigned short, in <code>map</code> unsigned short, in <code>data</code> unsigned short, in <code>InterrogationCode</code> boolean</li> </ul>
<p><b>Timer</b></p> <ul style="list-style-type: none"> <li>• <code>setTimeStart()</code></li> <li>• <code>getTimeStart()</code> Time</li> <li>• <code>countdown()</code> in <code>YAxisTime</code> unsigned short</li> <li>• <code>stopTime()</code></li> <li>• <code>displayTime()</code> string</li> <li>• <code>getTimeEnd()</code> boolean</li> <li>• <code>getTimeEnd()</code> cell boolean</li> <li>• <code>timeTidTimer()</code> string</li> </ul>

### Data

PressureControl	ExternalMemory	InternalMemory
<ul style="list-style-type: none"> <li>• <code>writeBlock()</code></li> <li>• <code>readBlock()</code></li> <li>• <code>blockSizeOnChip</code> unsigned short</li> <li>• <code>blockIndex()</code></li> <li>• <code>blockLength()</code></li> <li>• <code>formatBlockCRC()</code></li> </ul>	<ul style="list-style-type: none"> <li>• <code>initiateDataCRC()</code></li> <li>• <code>generateRandomNumber16Bit</code> short</li> <li>• <code>checksumDataCRC</code> on file, in user memory string</li> <li>• <code>writeToDataCRC</code> on file to SD string</li> <li>• <code>checksumFileTemplate</code> on filename string</li> </ul>	<ul style="list-style-type: none"> <li>• <code>writeToEEPROM</code> in address integer, in value unsigned short</li> <li>• <code>readFromEEPROM</code> in address integer, in value unsigned short</li> </ul>
PressureSampling		
<ul style="list-style-type: none"> <li>• <code>setCpuPressure()</code> unsigned short</li> <li>• <code>returningRawData()</code> in peak[] unsigned short, in cpuPressure[] unsigned short, in peakAndLength unsigned short, in totalNumberOfPeaks unsigned short, in pcc PressureControl, in all Utilities</li> </ul>		

Utilities
<ul style="list-style-type: none"> <li>• rawToMdbg(in rawPressure: unsigned short): double</li> <li>• mdbgToRaw(in mdbgPressure: unsigned short): double</li> </ul>

Libraries
+Arduino
+EEPROM
+SD
+GPI
+DS1302
+Adafruit_GFX
+Adafruit_ILI9340