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**Requirements**

**Temperature and wet measurement**

# **Overview**

Temperature and wet measurement are working as its name which measure and show the temperature and wetness of surrounding area. It can recoginze if the sensors are invalid and replaceable.

# **Product Requirements**

### **Hardware Design**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
| I.1 | Visual Interface | Shall have an LCD display |  |  |
| I.2 | Temperature and wet measurement | Shall have sensor | Be replaceable |  |

### **Display Screen**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
| II.1 | Always On | The display shall always show:   * Temperature and wet * Status of senors |  |  |
| II.2 | Reset |  |  |  |

### **Connectivity**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
|  |  |  |  |  |
|  |  |  |  |  |

### **Power**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
| IV.1 | Power | Shall operate with 3.3V DC supply | Shall have protect circuit | 3.3V adapter |

### **Durability**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
| V.1 |  |  |  |  |

### **Out of Box Experience (OOBE)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
| VII.1 | Sensors | Replaceable |  |  |
| VII.2 | Power protection | Proctect the main IC and replaceable |  |  |
| VIII.3 | Reset LCD | Reset LCD in case it working wrong due to interface |  |  |
|  |  |  |  |  |

### **Security & Privacy**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Technical/Engineering Specifications** | **Comments** |
|  |  |  |  |  |