|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | Test Specifications | Test Results | Compliance |
| Temp & Hum 2 Click | Board powered by 3.3V connection | Connected board and checked LED light. Measured | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Get temperature readings via FRDM-KL46Z code to display on PUTTY | Non-zero reading recorded and displayed on PUTTY | Pass |
| Test Case | **Test Specifications** | **Test Results** | **Compliance** |
| USB UART 3 Click | Board powered by 3.3V and 5V connections | Connected board and checked LED light. Measured | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Successful USB connection via USB UART 3 Click to FRDM-KL46Z | Established PUTTY connection via USB UART 3 Click | Pass |
|  |  |  |  |
| Color 5 Click | Board powered by 3.3V and 5V connections | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages in respective pins measured to be below 3.3V threshold | Pass |
| Get RGB readings via FRDM-KL46Z code to display on PUTTY | Non-zero reading recorded and displayed on PUTTY | Pass |
| Test Case | **Test Specifications** | **Test Results** | **Compliance** |
| Bar Graph 2 Click | Board powered by 3.3V and 5V connections | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Cycle Bar Graph Click through set pattern | Pattern set and displayed on Click | Pass |
|  |  |  |  |
| Accel 5 Click | Board powered by 3.3V connection | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Get x, y, z coordinate acceleration readings from Click | Non-zero reading recorded and displayed on PUTTY | Pass |
| Gaussmeter Click | Board powered by 3.3V connection | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Get x, y, z magnetic field readings from Click | Non-zero reading recorded and displayed on PUTTY | Pass |
| Test Case | **Test Specifications** | **Test Results** | **Compliance** |
| Light Ranger 3 Click | Board powered by 3.3V connection | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Get distance readings from Click | Non-zero reading recorded and displayed on PUTTY | Pass |
|  |  |  |  |
| Alcohol Click | Board powered by 5V connection | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages measured to be unsafe. Measured at 4.2 volts peak despite tweaking variable resistor to max value. | Fail |
| Get alcohol level reading from Click | Non-zero reading recorded and displayed on PUTTY using a resistor and a breadboard, not tested on Click Sensor Hub board due to damage it would cause FRDM-KL46Z | Fail |
| Air Quality Click | Board powered by 3.3V and 5V connections | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Get air quality level reading from Click | Non-zero reading recorded and displayed on PUTTY | Pass |
| microSD Click | Board powered by 3.3V connection | Connected board and checked LED light | Pass |
| Ensure safe connection to FRDM-KL46Z, no feedback voltage should be above 3.3V | Voltages of respective pins measured to be below 3.3V threshold | Pass |
| Get data from SD card to FRDM-KL46Z via Click board | Number value successfully read from text file | Pass |

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| **Test Cases** | **Test Specifications** | **Test Results** | **Compliance** |
| **Socket #X** |  |  | Passed 5/5 |
| (AN) Analog | Test Analog Click on Socket | Putty output achieved on selected socket with Air Quality Click | Pass |
| (MISO/MOSI)  (CS/SCK) SPI | Test SPI Click on Socket | Bar Graph Click had selected pattern displayed on selected socket | Pass |
| (RX/TX) UART | Test UART Click on Socket | Serial connection on computer via selected socket | Pass |
| (SCL/SDA) I2C | Test I2C Click on Socket | I2C connection displayed data on PUTTY terminal using Temp2Hum Click via the selected socket | Pass |
| PWM | Test PWM Click on Socket | Bar Graph Click had selected pattern displayed on selected socket | Pass |
| (+3.3V/+5V) VCC/GND | All four mikroBUS™ sockets have both an optional 3.3V and 5V channel. All four mikroBUS™ sockets are grounded | When PCB is powered with 10v and 1amp. Both the +3.3V and +5V channels display proper voltage output. The GND has 0V output | Pass |

