

Fennec Fox Sensors Test Suite

Name:

Email:

Date:

Platform:

No.	Test Name	Virtual Sensor	Pass / Fail	
1	Temperature	Yes	Pass	Fail
2	Humidity	Yes	Pass	Fail
3	Light	Yes	Pass	Fail
4	Battery	Yes	Pass	Fail
5	Accelerometer	Yes	Pass	Fail
6	Magnetic	Yes	Pass	Fail
7	PIR	Yes	Pass	Fail
8	Camera	Yes	Pass	Fail
9	Vibration	Yes	Pass	Fail
10	Thin Force	Yes	Pass	Fail

Procedure:

The Fennec Fox Sensor Test Suite is based on the Swift Fox test programs checking if a mote's LEDs are blinking, if the serial and printf libraries can communicate with a mote and PC, and if a network data collection is operating between two motes. The test suite is located in the Swift Fox directory, in `$ swiftfox/examples/tests`

The suite has been tested on a **platform-name**, where **platform-name** is one of the following: telosB, intelMote2, Z1, micaz.

No. 1 : Temperature

Test Temperature Sensor.

INPUT:

```
$ sfc temp
```

```
$ fennec platform-name install
```

OUTPUT:

Messages with sensor measurements can be read through USB:

```
$ java net.tinyos.tools.PrintfClient -comm serial@/dev/ttyUSB0:115200
```

Sample output: Thread[Thread-1,5,main]serial@/dev/ttyUSB0:115200: resynchronising

```
Temp: 28
```

```
Temp: 27
```

```
Temp: 28
```

```
Temp: 28
```

Comments

No.2 : Humidity

Test Humidity Sensor.

INPUT:

```
$ sfc hum
```

```
$ fennec platform-name install
```

OUTPUT:

Messages with sensor measurements can be read through USB:

```
$ java net.tinyos.tools.PrintfClient -comm serial@/dev/ttyUSB0:115200
```

Sample output: Thread[Thread-1,5,main]serial@/dev/ttyUSB0:115200: resynchronising

```
Hum: 44
```

```
Hum: 43
```

```
Hum: 44
```

```
Hum: 43
```

Comments

No.3 : Light

Test Light Sensor.

INPUT:

```
$ sfc light
```

```
$ fennec platform-name install
```

OUTPUT:

Messages with sensor measurements can be read through USB:

```
$ java net.tinyos.tools.PrintfClient -comm serial@/dev/ttyUSB0:115200
```

Sample output: Thread[Thread-1,5,main]serial@/dev/ttyUSB0:115200: resynchronising

```
Ligt: 540
```

```
Ligt: 480
```

```
Ligt: 370
```

```
Ligt: 380
```

Comments