

| Specifications      | ActTrust2                                                                              | ActLumus                                                                                                   |
|---------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weight Without Band | 16g                                                                                    | 12g                                                                                                        |
| Weight With Band    | 35g                                                                                    | 31g                                                                                                        |
| Dimensions          | 39mm x 30mm x 11,9mm                                                                   | 33,5mm x 26,3mm x 12,5mm                                                                                   |
| Memory size         | 8MB                                                                                    | 8MB                                                                                                        |
| Sampling Period     | 3 Months (Using 60s epoch)                                                             | 1 Month (Using 60s epoch)                                                                                  |
| Battery Life        | 3 Months (Using 60s epoch)                                                             | 1 Month (Using 60s epoch)                                                                                  |
| Battery Type        | Rechargeable                                                                           | Rechargeable                                                                                               |
| Water Resistance    | IP67                                                                                   | IP67                                                                                                       |
| Sampling Interval   | Settable from 1s to 86400s                                                             | Settable from 1s to 86400s                                                                                 |
| Sensors             | Accelerometer<br>Wrist and Ambient Temperature<br>RGB+IR Light<br>-                    | Accelerometer<br>Wrist Temperature<br>Spectral + Photopic + Melanopic Light<br>Off-wrist Capacitive sensor |
| Communication       | USB using a dock as interface                                                          | Bluetooth                                                                                                  |
| Activity Modes      | PIM, TAT and ZCM                                                                       | PIM, TAT and ZCM                                                                                           |
| Display             | LCD                                                                                    | -                                                                                                          |
| Accelerometer       |                                                                                        |                                                                                                            |
| Axes                | 3                                                                                      | 3                                                                                                          |
| Resolution          | 12 Bits                                                                                | 12 Bits                                                                                                    |
| Sampling Rate       | 25Hz                                                                                   | 25Hz                                                                                                       |
| Temperature Sensor  |                                                                                        |                                                                                                            |
| Accuracy            | +/-0.5°C (20°C to 40°C)<br>1°C for other values                                        | +/-0.5°C (20°C to 40°C)<br>1°C for other values                                                            |
| Operating Range     | 0°C - 70°C                                                                             | 0°C - 70°C                                                                                                 |
| Light Sensor        |                                                                                        |                                                                                                            |
| Spectrum            | Red, Green, Blue and Infrared                                                          | Melanopic, Photopic and RGB+IR                                                                             |
| Observations        | It measures the intensity of each spectrum independently and the total light intensity | 10 Different Light channels that are combined to estimate photopic and Melanopic ADI                       |
| Operating Range     | 0.01 - 8388.6 $\mu\text{W}/\text{cm}^2$                                                | 1 - 100k Lux                                                                                               |
| Accuracy            | 2% at 10 $\mu\text{W}/\text{cm}^2$ (typical)                                           | 10% at 1k Lux                                                                                              |