General operation

The watch has two button contacts. The right hand button is used to initiate a time reading. The left hand button is used to enter the settings menu and also to display the date features. When both buttons are pressed together, the battery power reserve will be displayed and also the trigger counter can be displayed.

Initiate a time reading:
Use your finger to make contact between the right hand button (1) and the right hand case contact (3). The time will now be displayed in a scrolled sequence (10^{th} of hours, units of hours, 10^{th} of minutes, units of minutes).

Displaying the seconds:
First initiate a time reading as described above, then release the button (1) and shortly afterwards press it again. Now keep it pressed until the seconds are displayed after the watch has completed through the hours and minutes sequence.

Initiate a date reading:
Use your finger to make contact between the left hand button (2) and the left hand case contact (4). The day of the week will be displayed (1 = Monday; 7 = Sunday). If you keep button (2) pressed, it will scroll through the date sequence

(dd followed by mm followed by yy). Scrolling will stop as soon as the button is released.

Battery reserve reading:
Use two fingers to activate both buttons (1 + 2) at the same time while making contact with the case contacts (3 + 4). A number between 0 and 9 will show. Any number below 6 means that the battery reaches its minimum charge. From this moment on, the tubes will become dimmer until they will stop illuminating after the battery has run down to below 0. The time circuits are still updated at that stage but the time is no longer displayed. Charge the battery a.s.a.p. till at least level 7.

Trigger counter:
If the two buttons (1 + 2) are kept pressed after the battery reserve reading, the watch will initiate the scroll sequence for the trigger counter. First it will show the thousands, then the hundreds, then tens, then units. For example 7,523 would sequence as 7 (long delay) 5 (short delay) 2 (short delay) 3. Range of the counter is 0 – 99,999. Every time the watch is activated (to read time, date or battery reserve) this trigger counter is incremented. This way you have a good indication to check how often the watch has been used.

Reset the trigger counter:

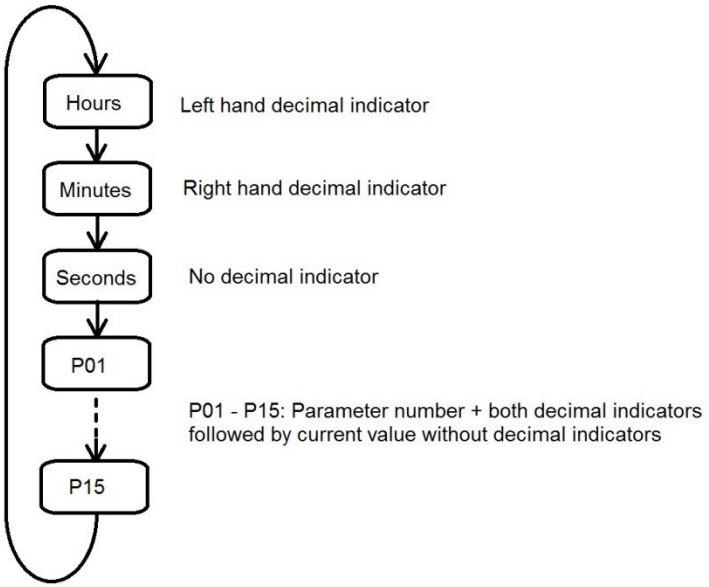
When the trigger counter is being displayed, release the two buttons (1 + 2), quickly press both buttons again and then release button 1 while holding down button 2. To confirm the reset counter, a new sequence is automatically initiated, displaying the digits 0 0 0 0.

Enter the settings menu:

If the left hand button (2) is pressed after a time reading is initiated (by pressing right hand button (1)) the watch will enter the settings menu after finishing the hours and minutes sequence. The hours will start flashing (always in 24hr format) together with the left hand decimal point indicator (6). The right hand button (1) can now be pressed to advance the hours. Pressing the left hand button (2) again will put the watch into minutes setting with the right hand decimal point indicator (5). Again, pressing the right hand button (1) will advance the minutes. Keep the button (1) pressed to advance the minutes very quickly. Pressing the left hand button (2) after the minutes will display the seconds (without decimal indicators), the right hand button (1) will reset the seconds to 00 when pressed.

If the left hand button is again pressed after the seconds, the parameters can be modified. A parameter number is displayed with both decimal indicators on, followed by the current value without the decimal indicators. For example suppose parameter ‘1’ is set to ‘0’ the display will show a ‘1’ with both decimal indicators followed by a ‘0’ without the

decimal indicators. The right hand button (1) will change this setting. Pressing the left hand button (2) will advance to the next parameter etc.



Leaving the settings menu:

Hold the left hand button (2) pressed at any time for about 2 seconds to leave the settings menu. The current time will then be displayed. Do not keep the left hand button pressed for too long, otherwise the watch will return again into setting mode.

Parameter listing:

P01 : Watch operation [0=normal, 1=auto every 5secs; 2=Closing Ceremony; 3=Closing Ceremony also in Auto]
P02 : Motion sensor [0=off, 1=on]
P03 : Motion sensor sensitivity [0=more; 3=less]
P04 : Brightness [0=normal, 1=maximum 25% power]
P05 : Tube brightness in low ambient light [0=+0, 1=+2, 2=+4, 3=+8]
P06 : Scroll speed [0=fast, 1, 2, 3=slow]
P07 : Motion sensor mode [0=Wave, 1=Sleeve]
P08 : Skip day of the week [0=no skip, 1=skip]
P09 : 12/24hr format [0=24hr, 1=12hr]
P10 : Calibration register increment
P11 : Calibration register decrement
P12 : Day of the week [1 = Monday; 7 = Sunday]
P13 : day of the month [1 - 31]
P14 : month [1 - 12]
P15 : year [00 - 99]

Parameter defaults:

P01=0; P02=0; P03=2; P04=0; P05=0;
P06=1; P07=0; P08=0; P09=1

Calibration

The watch keeps accurate time, probably better than 1 second per day. Should you wish to increase the accuracy, the calibration registers can be used.
P10 (calibration increment) and P11 (calibration decrement) are the registers that need to be adjusted in order to make adjustment to the time circuit.

Each increment leads to a 2.5 second increment per month. Each decrement leads to a 2.5 second decrement per month.

Suppose you have measured the watch is 10 seconds slow per month, set P10 to 4 and exit the setting menu. The internal calibration register will be adjusted by 4 times 2.5 seconds and then resets P10 to 0. If it is 5 seconds too fast per month, set P11 to 2 and then leave the setting menu.