

PRECISION

OPERATING INSTRUCTIONS

DIGITAL

GW-23 SERIES



| | |
|----|-------|
| S1 | MODE |
| S2 | RESET |
| S3 | START |
| S4 | LIGHT |

1. FUNCTION DESCRIPTION

The watch shall possess the following features and functions:

TIME AND DATE

- » Digital time display (hour, minute and second): optional 12-hour or 24-hour time format
- » Digital date display (date, day of week)
- » World time function (time for 85 cities worldwide)

CHRONOGRAPH

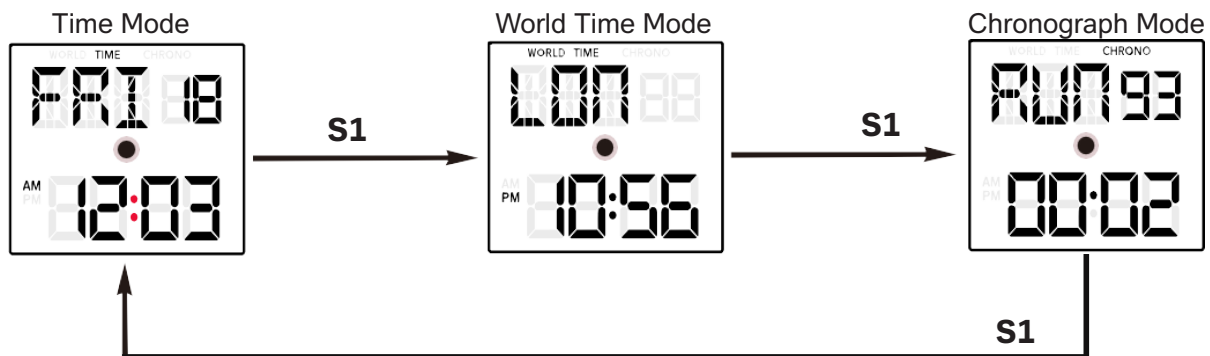
- » 1/100 - second resolution, count up to 24 hours
- » No lap record

EL BACKLIGHT

- » Build-in EL backlight

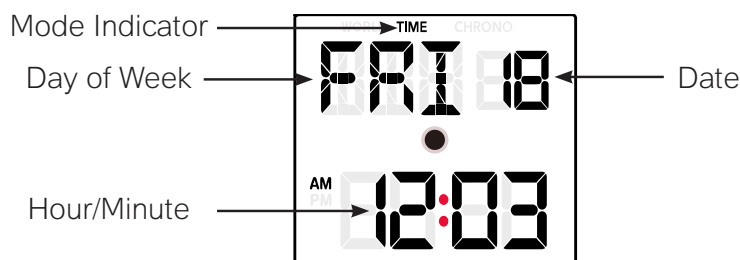
2. MODE ARCHITECTURE

The watch employs classic mode architecture for navigation between modes. The default mode is the time mode, and the user can press button **S1** to switch between different function modes. The operation is as below:



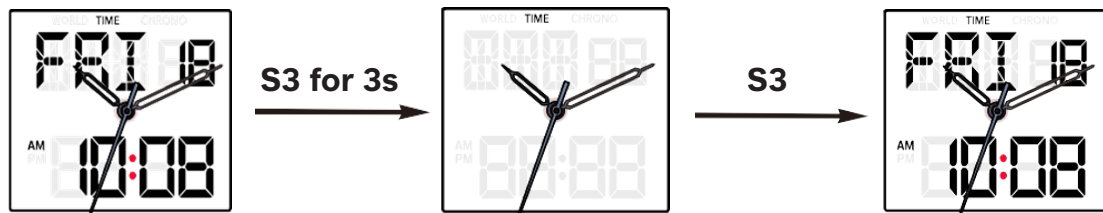
3. OPERATION IN TIME OF DAY

The display in time mode is shown below:



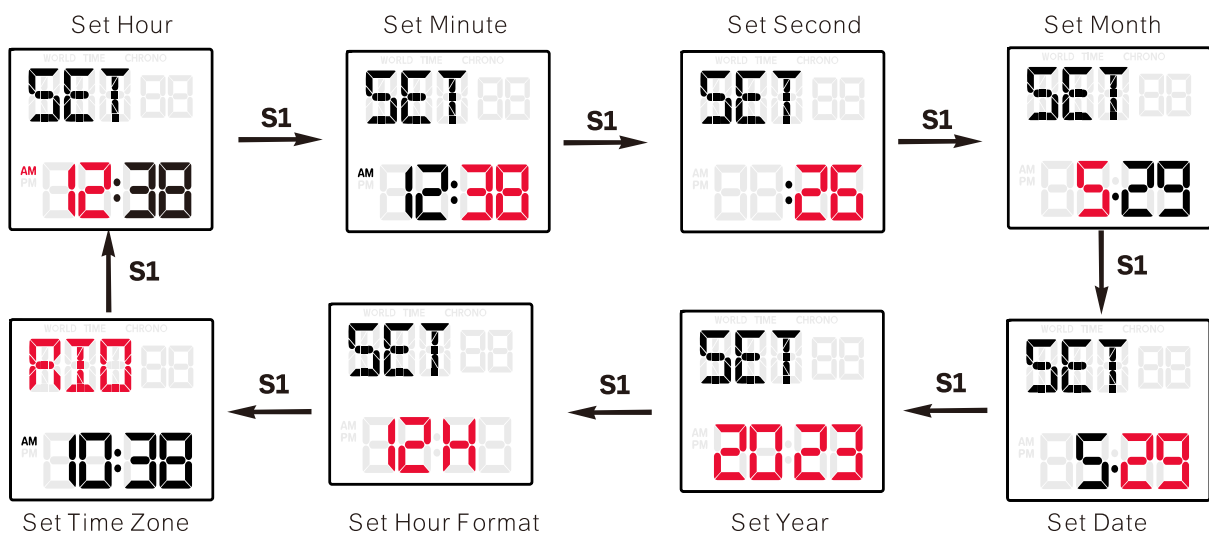
BASIC OPERATIONS:

- » Pressing button **S1** will change to the next function mode, world time.
- » Pressing button **S4** will turn on the EL backlight for 3 seconds.
- » A long press of button **S2** for 3 seconds will enter the time set state.



HOW TO SET DIGITAL TIME AND DATE:

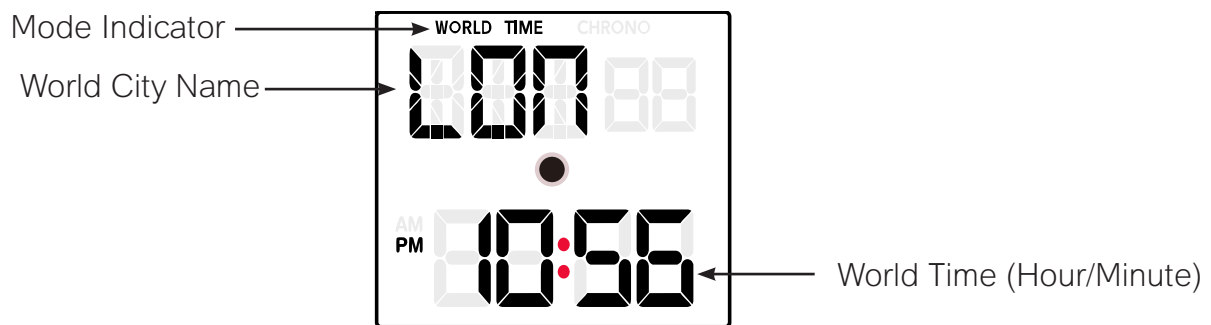
- » Long press of button **S2** for 3 seconds while in the time display state. The hour will start blinking, indicating entry into the set state. The hour is the first set item.
- » Use button **S1** to change the set item.
- » Use buttons **S2** or **S3** to change the setting value.



- » When setting the hour, minute, month, date, and year, use button **S3** to increase the setting value and button **S2** to decrease it. Hold either button for 1 second for fast adjustment; release to exit fast adjustment mode.
- » When setting the second, press button **S3** or **S2** to reset the second value to zero.
- » To toggle between the 12-hour and 24-hour formats, press buttons **S3** or **S2**.
- » To exit the set state, either press and hold button **S1** for 3 seconds or allow 3 minutes of no key action to automatically save all settings and return to normal time display.

4. OPERATION IN WORLD TIME MODE

The display in time mode is shown below:



BASIC OPERATIONS:

- Pressing button **S1** will change to the next function mode, chronograph.
- Pressing button **S2** will change world time to the last city.
- Pressing button **S3** will change world time to the next city.
- Pressing button **S4** will turn on the EL backlight for 3 seconds.

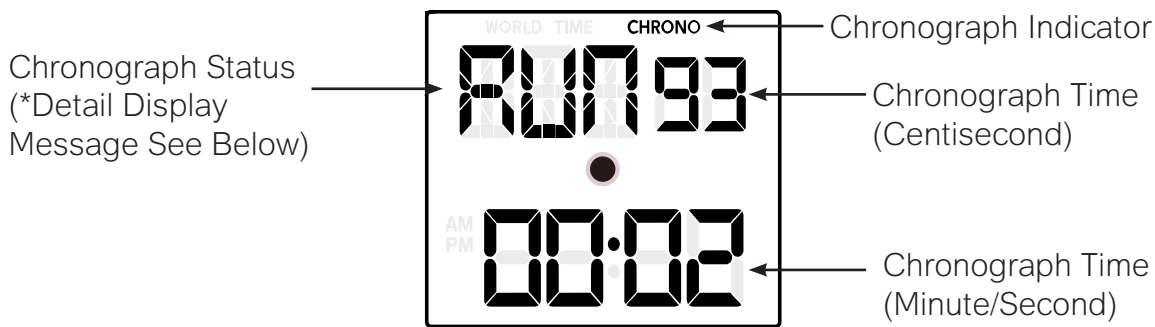
WORLD TIME ZONES:

| Index | City Code | City Name | UTC Offset |
|-------|-----------|----------------------------|------------|
| 1 | PPG | Pago Pago, AS | -11:00 |
| 2 | HNL | Honolulu, US | -10:00 |
| 3 | ANC | Anchorage, US | -9:00 |
| 4 | AKT | Alaska Standard | -9:00 |
| 5 | LAX | Los Angeles, US | -8:00 |
| 6 | YVR | Vancouver, CA | -8:00 |
| 7 | PST | Pacific Standard | -8:00 |
| 8 | DEN | Denver | -7:00 |
| 9 | YEA | Edmonton | -7:00 |
| 10 | MST | Mountain Standard | -7:00 |
| 11 | CHI | Chicago | -6:00 |
| 12 | MEX | Mexico City | -6:00 |
| 13 | YWG | Winnipeg | -6:00 |
| 14 | CST | Central Standard | -6:00 |
| 15 | MIA | Miami | -5:00 |
| 16 | NYC | New York | -5:00 |
| 17 | YTO | Toronto | -5:00 |
| 18 | EST | Eastern Standard | -5:00 |
| 19 | CCS | Caracas | -4:00 |
| 20 | YHZ | Halifax | -4:00 |
| 21 | SCL | Santiago | -4:00 |
| 22 | AST | Atlantic Standard | -4:00 |
| 23 | YYT | St. Johns | -3:30 |
| 24 | BUE | Buenos Aires | -3:00 |
| 25 | RIO | Rio De Janeiro | -3:00 |
| 26 | WGT | West Greenland | -3:00 |
| 27 | FEN | Fernando de Noronha | -2:00 |
| 28 | RAI | Praia | -1:00 |
| 29 | EGT | East Greenland | -1:00 |
| 30 | UTC | Coordinated Universal Time | 0:00 |
| 31 | WET | Western European Time | 0:00 |

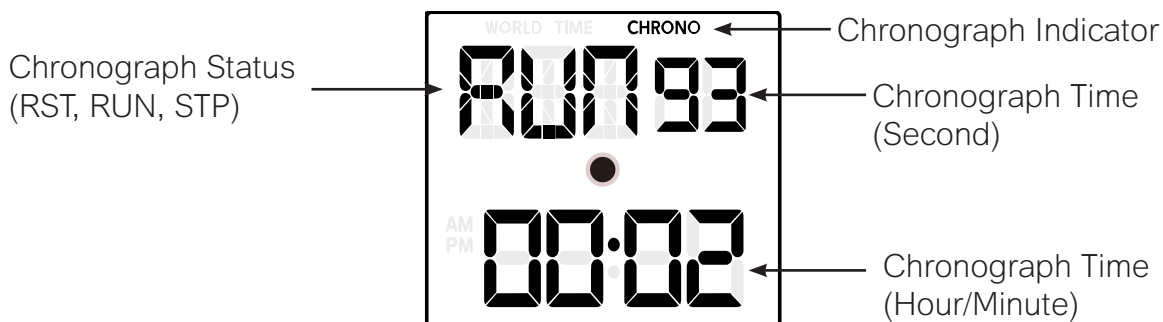
| Index | City Code | City Name | UTC Offset |
|-------|-----------|-----------------------------|------------|
| 32 | LIS | Lisbon | 0:00 |
| 33 | LON | London | 0:00 |
| 34 | WAT | West Africa | 1:00 |
| 35 | AMS | Amsterdam | 1:00 |
| 36 | BER | Berlin | 1:00 |
| 37 | MAD | Madrid | 1:00 |
| 38 | MCM | Monte Carlo | 1:00 |
| 39 | PAR | Paris | 1:00 |
| 40 | PRG | Prague | 1:00 |
| 41 | ROM | Rome | 1:00 |
| 42 | STO | Stockholm | 1:00 |
| 43 | CAT | Central Africa Time | 2:00 |
| 44 | EET | Eastern European Time | 2:00 |
| 45 | SAT | South Africa Standard | 2:00 |
| 46 | ATH | Athens | 2:00 |
| 47 | CAI | Cairo | 2:00 |
| 48 | HEL | Helsinki | 2:00 |
| 49 | JRS | Jerusalem | 2:00 |
| 50 | NIC | Nicosia | 2:00 |
| 51 | ANK | Ankara | 3:00 |
| 52 | EAT | East Africa Time | 3:00 |
| 53 | BGW | Baghdad | 3:00 |
| 54 | DOH | Doha | 3:00 |
| 55 | JED | Jeddah | 3:00 |
| 56 | MOS | Moscow | 3:00 |
| 57 | THR | Tehran | 3:30 |
| 58 | GST | Gulf Standard | 4:00 |
| 59 | DXB | Dubai | 4:00 |
| 60 | KBL | Kabul | 4:30 |
| 61 | KHI | Karachi | 5:00 |
| 62 | DEL | Delhi | 5:30 |
| 63 | KTM | Kathmandu | 5:45 |
| 64 | DAC | Dhaka | 6:00 |
| 65 | RGN | Yangon | 6:30 |
| 66 | CXT | Christmas Island Time | 7:00 |
| 67 | BKK | Bangkok | 7:00 |
| 68 | AWT | Australian Western Standard | 8:00 |
| 69 | BEI | Beijing | 8:00 |
| 70 | SHA | Shanghai | 8:00 |
| 71 | CEB | Cebu | 8:00 |
| 72 | HKG | Hong Kong | 8:00 |
| 73 | KUL | Kuala Lumpur | 8:00 |
| 74 | MNL | Manila | 8:00 |
| 75 | PER | Perth | 8:00 |
| 76 | SIN | Singapore | 8:00 |
| 77 | TPE | Taipei | 8:00 |
| 78 | SEO | Seoul | 9:00 |
| 79 | TKY | Tokyo | 9:00 |
| 80 | ADL | Adelaide | 9:30 |
| 81 | AET | Australian Eastern Standard | 10:00 |
| 82 | GUM | Guam | 10:00 |
| 83 | SYD | Sydney | 10:00 |
| 84 | NOU | Noumea | 11:00 |
| 85 | WLG | Wellington | 12:00 |

5. OPERATION IN CHRONOGRAPH

The display in chronograph mode is shown below:



When chronograph time is less than one hour



When chronograph time is over one hour

* CHRONOGRAPH STATUS DISPLAY MESSAGE

“RST” : Chronograph is reset, all data are clean.

“STP” : Chronograph is stopped.

“RUN” : Chronograph is running.

“SPL” : Chronograph is in split state.

BASIC OPERATIONS:

- To return to the time display mode, press button **S1**.
- When the chronograph is stopped, press button **S3** to start timing immediately. Pressing **S3** again will stop the chronograph.
- If the chronograph is already running, pressing button **S2** will keep the chronograph running, but the displayed time will pause and the message “SPL” will flash. After 5 seconds, it will return to the normal running time display.



- When the chronograph is stopped, a short press of button **S2** will clear the current chronograph running time.
- If the chronograph is running and reaches the maximum time, it will stop automatically and display the maximum time as 23 hours, 59 minutes, 59 seconds, and 99 hundredths of a second.
- In any state, pressing button **S4** will activate the EL backlight for 3 seconds.

6. MODULE SPECIFICATIONS

| | |
|---------------------------------|------------------------|
| Module Diameter: | Φ36.20 mm |
| Module Thickness: | 7.50 mm |
| Work Temperature: | -10°C~60°C |
| Work Voltage: | 3.0 V |
| Standby Work Current: | < 5.5 uA |
| Battery: | Maxell CR2025 (140mAh) |
| Est. Battery Enduration: | 24 months |