

## ■ FEATURES

The SEIKO SCUBAMASTER is the world's first computerized diver's watch that has 1. time/alarm, 2. diving, 3. dive table and 4. log data functions.

### ① Time/alarm function

By using the function, the SCUBAMASTER serves as an alarm watch for every day use.

● The alarm time, calendar and current time are all displayed in the liquid crystal panel.

### ② Diving function

Use the function when making dives.

● The following data are displayed while you are making a dive.

- Current depth
- Maximum depth
- Diving time
- Surface interval time
- No-decompression limits, etc.

### ③ Dive table function

Use the function to prepare a diving plan.

● The data included in the U.S. Navy's Dive Table are stored in memory and can be referred to.

### ④ Log data function

Use the function to refer to your log data.

- Details of up to 30 dives are stored in memory for recall.
- Month and date of dive
- Time submerged
- Time ascended
- Maximum depth
- Average depth of a dive
- Diving time

## ■ CAUTIONS

1. The SEIKO SCUBAMASTER is designed only for use in sports diving (no-decompression diving), and it is not suitable for decompression diving, saturation diving and diving at altitudes. Never use the watch for such purposes.

2. DO NOT use the watch outside its operational temperature range.

\* The watch provides "no-decompression limits" that are based on the standards specified in the U.S. Navy's Dive Table. Unless you have undergone the basic training of safe diving, however, you cannot fully understand the concept of "no-decompression limits" and properly utilize them while diving. Never use the watch unless you have enough knowledge and skills to safely enjoy diving.

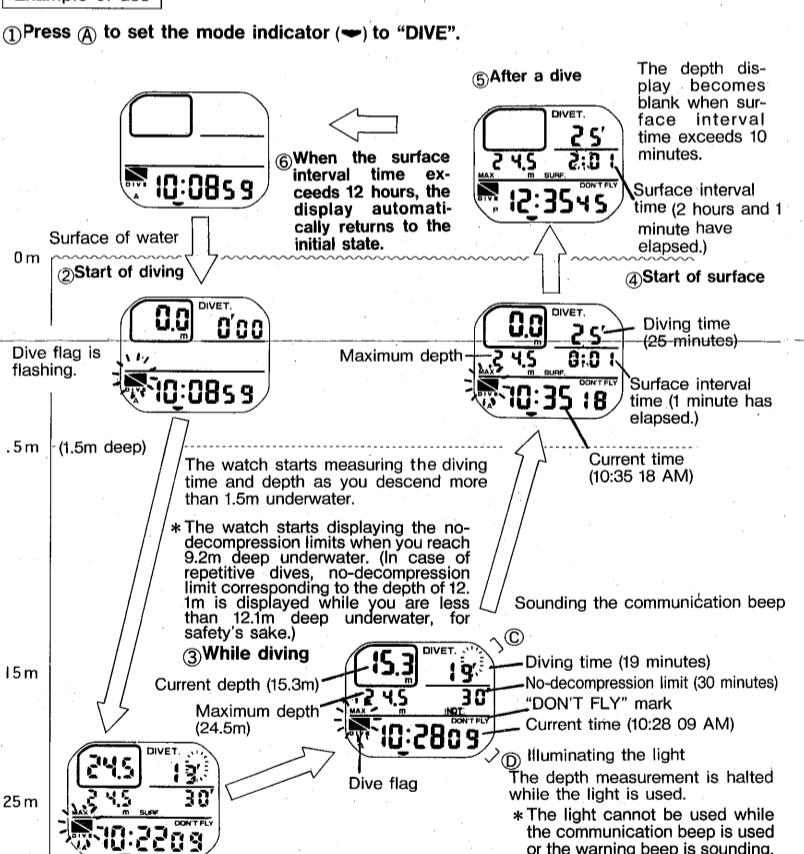
\* The SEIKO SCUBAMASTER is a diver's watch with a built-in electronic depth gauge. For safety's sake, however, dive with other diving instruments you have been using together with the watch. Also, abide by the rules of sports diving (no-decompression diving), and never stay underwater beyond the no-decompression limits.

## ■ DIVE MODE (Example of use)

### ● Use of the DIVE mode will be illustrated below by giving an example.

- ① Before making a dive
- ② At the start of diving
- ③ 10 minutes after the dive is started, at the depth of 15.3m; with the maximum depth 24.5m
- ④ When facing; start of surface interval time measurement
- ⑤ After a dive; 2 hours and 1 minute have elapsed.
- ⑥ After a dive, when the surface interval time exceeds 12 hours, the display returns to the initial state.

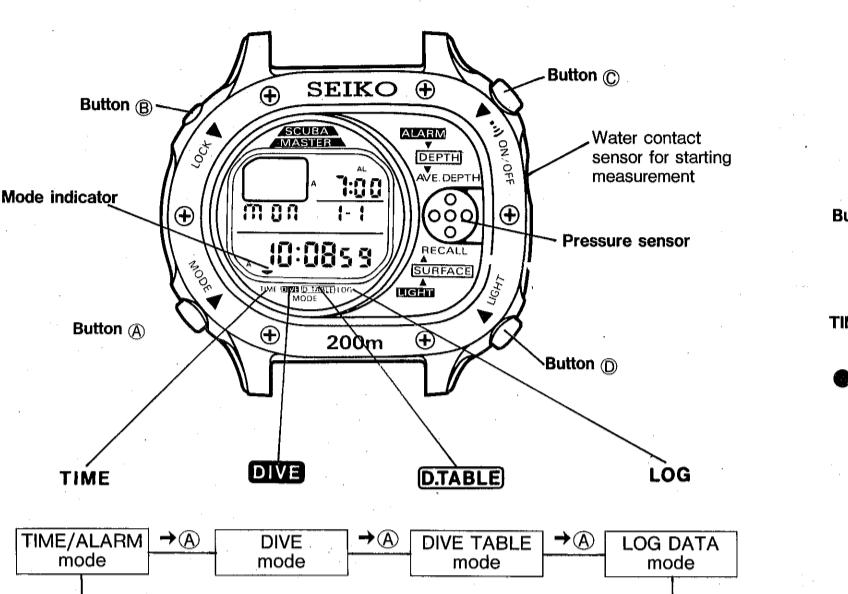
### Example of use



## ■ MODE CHANGE

The SCUBAMASTER has the following modes, and the mode indicator (→) points to one of the four mode names printed on the case below the display panel to indicate which mode the watch has been set to.

### The mode changes with easy press of ④



## ■ WARNING FUNCTIONS FOR DIVING

### ● Warning functions

Warning	Condition of giving warning	Warning signal	Remarks
No-decompression limits warning [DECO]	• When diving time exceeds 12 hours.	• Beeping sound rings for 10 seconds. • "DECO" flashes. • No-decompression limits disappear from display.	No instruction of decompression is given. With the warning sound is beeping, the depth measurement is halted.
After a dive		10:28:09 No-decompression limits warning mark	
Rapid ascent warning [SLOW]	• When the diver ascends in water at the rate of more than 1.5m in 5 seconds.	• Beeping sound rings for 10 seconds. • Flashing "SLOW" is shown in place of the current time.	The warning sound beeps when the rate of ascent exceeds 18m/min. With the warning sound is beeping, the depth measurement is halted.
Warning against flying [DON'T FLY]	• Appears on the display after the diver has surfaced, and remains shown while the surface interval time is less than 12 hours.	• "DON'T FLY" is displayed above the second digits of the current time display, and it remains displayed even if the mode is changed over to another.	For safety's sake, do not take an airplane while the warning signal is displayed.
		10:28:09 Rapid ascent warning mark	

### ● Note on the warning signals

The above warnings will be given if the limitations of the diving activities specified in the U.S. Navy's Diving Manual is exceeded. Depending on the temperature of water and your physical condition, however, the diving activity may become dangerous even if you enjoy diving within the limitations. Therefore, please note that the warning signals serve only as guidelines for your diving activities.

## ■ NOTES AND PRECAUTIONS ON BATTERY

### ● Battery life

A new normal battery will last approximately 3 years.

\* The battery life is less than 3 years if the alarm is used more than 15 seconds a day, the illuminating light more than 15 seconds a day and/or the DIVE mode more than 50 times a year (one hour per dive).

\* The battery in your watch is a monitor battery inserted at the factory to check the function and performance of the watch. Therefore the battery may run down even before 3 years.

\* The price of the monitor battery is not included in that of the watch. It will therefore be replaced with a new one only at cost even if it runs down within the guarantee period.

### ● Battery life indicator

If all the segments of the display flash, the watch may run down in 2 to 3 days. In that case, replace the battery with a new one as soon as possible.

\* The watch will remain accurate while all the segments of the display are flashing.

\* For safety's sake, the DIVE mode will not appear even if ④ is pressed while all the segments are flashing.

### ● Battery change

To request battery replacement, we recommend that you contact the retailer from whom it was purchased or an AUTHORIZED SEIKO DEALER.

At the time of battery replacement, the watch will also undergo a strict check for safety. Your watch will be sent from the watch shop that received your request to a SEIKO SERVICE CENTER, where water resistant quality of the watch and performance of the depth gauge will be checked in addition to the battery replacement. The gasket will be replaced with a new one if necessary. Therefore, it will take approximately 10 days before the watch is returned to you, and the checking may be made at cost.

\* When the watch is returned to you;

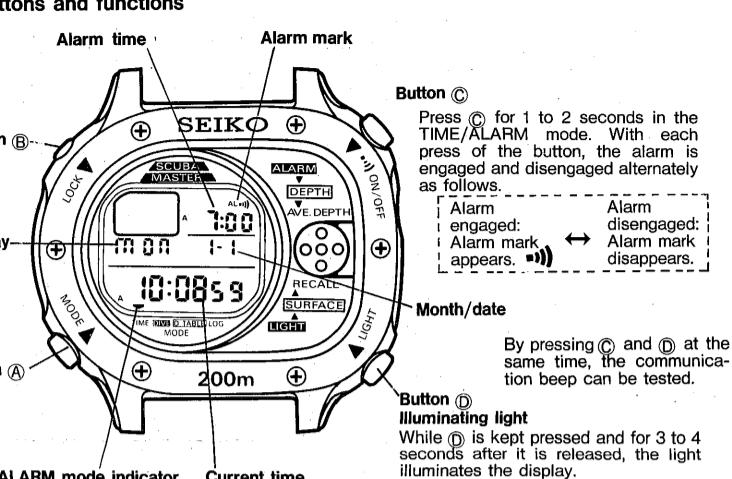
- all the log data in memory have been erased.
- the unit of depth will be reset to "m (meters)".



## ■ TIME/ALARM MODE

Press ④ to set the mode indicator (→) to "TIME".

### ● Buttons and functions



### ● Time/calendar/alarm setting

① Press ④ in the TIME/ALARM mode to show the TIME/ALARM SETTING display.

② Press ④ to select the digits to be adjusted (flashing) in the following order.

ALARM HOUR → ALARM MINUTES → SECONDS → MINUTES  
↑ ↓  
12-/24-HOUR INDICATION ← DAY ← DATE ← MONTH ← HOUR

③ Press ④ to set the flashing digits.

④ After all the adjustments are completed, press ④ to return to the TIME/ALARM mode.

\* If the watch is left untouched in the TIME/ALARM SETTING display with the digits flashing, the display automatically returns to the TIME/ALARM mode in 1 to 2 minutes.

\* In setting SECONDS, one minute is added and they are reset to "00" when they count any number from "30" to "59" and ④ is pressed.

## ■ DIVE TABLE MODE

### ● Use the DIVE TABLE mode to make a plan for a dive.

For a single dive, no-decompression limits corresponding to the depth ranks in the Dive Table are displayed in order. For repetitive dive, the watch automatically determines the repetitive group in the Dive Table from diving data obtained in the previous dive(s), and displays the no-decompression limits corresponding to the combinations of depths and surface interval times in the Dive Table.

Press ④ to set the mode indicator to "D.TABLE".

### ● Example of log data in memory

#### (Details of the dive)

The diver started diving at 1:50 PM on September 25. (The time the diver descended more than 1.5m deep underwater)

\* The maximum depth of the dive was 30m.

The diver surfaced at 21minutes PM. → (The time the diver ascended to less than 1.5m deep underwater)

[How to recall the stored log data]  
Press ④ to set the mode indicator (→) to "LOG". The newest data in memory will be displayed.

Maximum depth Time ascended (21minutes)  
Time submerged and ascended (1:50 PM) Time ascended (2:11 PM)  
Average depth (15.3m)

While ④ is kept pressed, the average depth is displayed.

Number of dives

Before a repetitive dive (dive to be made within 12 hours of surface interval)

Selection of depth With each press of ④, the depths and the corresponding no-decompression limits are shown in order.

Depth No-decompression limit (139 minutes)

Use ④ and ④ to display the no-decompression limit corresponding to a desired combination of depth and surface interval time.

Selection of surface interval times Press ④ to select the desired surface interval times.

No-decompression limit corresponding to the selected surface interval time will be displayed.

When the watch is set to the DIVE TABLE mode after a dive, no-decompression limit corresponding to the time the diver has actually spent on the surface will be displayed.

\* Unless the watch is used in the DIVE mode underwater, no log data are stored in memory, and therefore, the digits will be displayed in the LOG DATA mode.

[How to clear the log data in memory]  
The stored log data can be erased by following the procedure below.

Please note that all the data in memory will be erased.

Press ④ and ④ at the same time for 2 seconds in the LOG DATA mode.

<The display appears when no data are stored in memory>

## ■ U.S. NAVY'S DIVE TABLE

Reproduced from "U.S. NAVY DIVING MANUAL, REVISION 1 (NAVESEA 0994-LP-001-9010)" (1 JUNE 1985)

### NO-DECOMPRESSION LIMITS AND REPETITIVE GROUP DESIGNATION TABLE FOR NO-DECOMPRESSION AIR DIVE

Depth (feet)	No-decompression limit (minutes)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
10	60	120	210	300	350	180	240	325	315	245	310	310	220	270	310	
15	35	70	150	230	280	135	180	240	230	170	240	240	160	210	240	
20	25	50	100	135	170	120	145	170	160	120	150	150	100	130	150	
25	20	35	55	75	100	125	160	195	175	125	150	150	100	130	150	
30	15	30	45	60	75	95	120	145	130	100	120	120	80	100	120	
35	10	25	40	50	60	75	95	115	100	75	95	95	60	80	100	
40	12	20	30	40	50	60	75	95	80	100	120	120	90	110	130	
45	10	15	25	30	40	50	60	75	80	90	100	100	70	90	110	
50	15	20	30	40	50	60	70	80	90	100	110	110	80	100	120	
60	18	22	30	40	50	60	70	80	90	100	110	110	9			

## ■主な特長

セイコースキューバマスターは①時計機能②ダイビング機能③ダイブテーブル機能④ログデータ機能の四大機能を1つにしたスポーツダイバー用潜水時計です。

### ①時計機能

日常ほとんどの場合この機能を使います。  
●アラーム時刻・日付・現在時刻を一括表示し見やすくなっています。

### ②ダイビング機能

ダイビングの時に使用します。  
●ダイビング中の点滅をチェックする時に使います。  
●現在深度・最大深度・潜水量・水面休止時間など

### ③ダイブテーブル機能

ダイビングの計算をチェックする時に使います。  
●U.S.NAVYのダイブテーブルに準拠した数値を表示します。

### ④ログデータ機能

ダイビング後、ログデータを見たいときに使います。  
●最新の30データを記憶しています。  
●日付・潜水量開始時刻・浮上時刻  
●最大深度・平均深度・潜水量など。

## ■使用禁止事項

- このスクューバマスターは、一般スポーツダイバー用に作られており、減圧潜水や競泳、高所潜水には使用しないでください。
- 作動温度範囲外での使用はしないでください。
- \*ダイビング機能、およびダイブテーブル機能で表示される無減圧限界時間(NDT)は、U.S.NAVYのダイブテーブルより算出しておりますが、この使いたかについては、ダイビングに関する安全教育やトレーニングを受けた方のみ理解できるものであり、一般的な方へは、上記知識なしにて決して使用しないでください。
- \*この商品は水深計付のダイバーズウォッチです。実際の使用に当たっては、従来の機材の併用など、またスポーツダイビングのルールをよく守り、無理のない安全なダイビングを心掛けてください。

## ■ダイビングに関する警告機能について

### ●警告機能

警告内容	発生する状況	警告方法	備考
減圧警告	無減圧限界時間を越える潜水を行なったとき	・アラーム音(10秒間:ビッピィ) ・DECOマーク点滅 ・無減圧限界時間を表示している間は、水深計測はしません。	減圧の指示はできません。
【DECO】			
浮上速度警告	浮上速度がはやいとき 5秒間に1.5m以上の浮上をした時	・アラーム音(10秒間:ビッピィ) ・現在時刻表示部に「SLOW」マーク点滅 アラーム音が鳴っている間は、水深計測はしません。	浮上速度の限界を1.8m/分として警告をします。
【SLOW】			
航空機搭乗禁止表示	潜水量終了から12時間経過するまで	・潜水量終了から12時間経過するまで 「DON'T FLY」マーク点灯(すべてのモードにおいて表示)	安全のためこの表示が消えるまで航空機には搭乗しないでください。
【DON'T FLY】			

### ●警告の扱いについて

この警告機能はあくまでも一定の基準を超えた際に出すものです。その日の水温や体調により危険の度合は変化しますので、警告がでるまではいつでも安心ということはありません。

あくまで行動の目安としてお使いください。

## ■電池についてのお願いとご注意

### ●電池寿命

この時計は新しい正常な電池を組み込んだ場合その後約3年作動します。

\*ただし、アラーム1日15秒、ランプ1日5秒、ダイビング年50回(1回につき1時間とする)

\*お買い上げ後3年内に満たないうちに電池寿命が切れることがあります。この時計は工場出荷時に時計の機能を点検し、性能を検査するための電池(モーター用電池)が組み込まれているためアリーベンキ承ください。

\*この点検と検査のために組み込まれた電池(モーター用電池)は、時計の価格には含まれおりませんので、電池が切れた場合は保証期間内であっても電池交換は有料となります。

### ●電池寿命切れ予告機能

表示全体が点滅を始めますと2~3日中に時計が止まる可能性がありますので、お早めに電池交換をしてください。

\*表示が点滅をはじめても時刻は正確です。

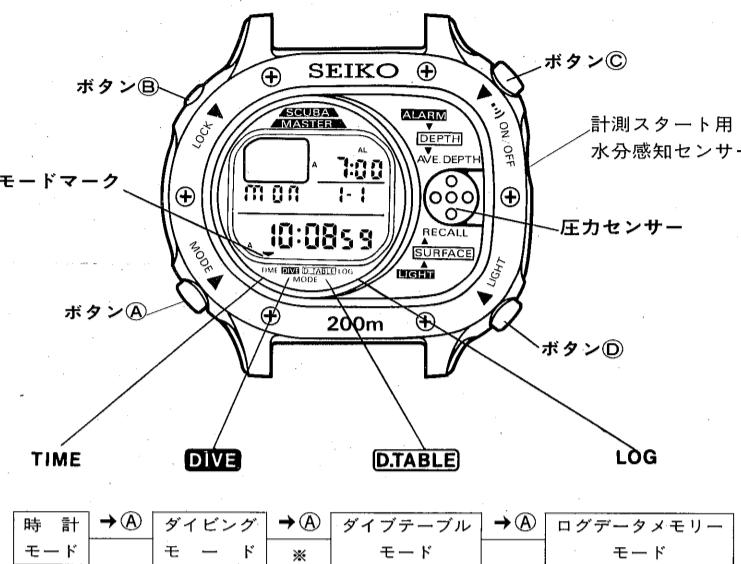
\*表示点滅中は安全のためダイブモードには入れません。

## ■各機能への切り替えかた

この時計はそのまま4つのモードに分かれています。  
モードマーク(■)がこの時計は今どのモードにいるのかを示します。

ボタンⒶを押すと、モードが切り替ります。

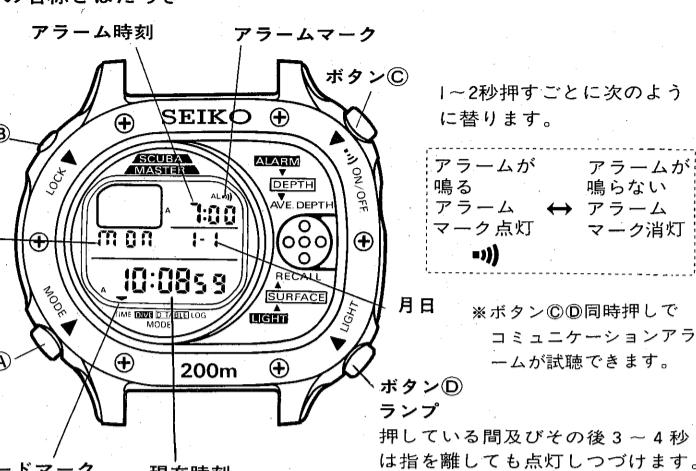
### TIME



## ■時計としてお使いになる場合

ボタンⒶを押すと、モードマーク(■)を「TIME」に合わせます。

### ●各部の名称とはたらき



I~2秒押すごとに次のように替ります。

ボタンⒶを同時に押して「m」マークにしてご使用下さい。この操作は、ダイビング中にはできませんので、必ずダイビング前に行って下さい。

ボタンⒶを1~2秒間押し続けて「m」マークにしてご使用下さい。この操作は、ダイビング中にはできませんので、必ずダイビング前に行って下さい。

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