

OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI

CASIO HQ-25

MANUAL DE OPERACION
MANUALE D'ISTRUZIONI



$T = D \div S$ (DECIMALS PRESS
TM FOR HRS. MIN.)

$D = T \times S$ - PRESS TIME = D

$S = D \div T = S.$

CASIO

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Dear customer,

Congratulations on your purchase of this unique calculating-clock. This new product offers you the following functions: clock (hour, minute, second and am/pm), alarm and calculator. This manual will familiarize you with many ways this highly capable unit can serve you.

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1/NOMENCLATURE

(1) Read-out:

Shows hour, minute, second and am/pm in the clock mode.

Indicates hour, minute and am/pm in the alarm mode.

Shows each entry and result in all calculations, suppressing unnecessary 0's (zeros).

(2) \square - \square , $\overline{\text{PM}}$ Numeral and decimal point keys:

Enters numerals. For decimal places, use the \square key in its logical sequence. The \square key also operates the "PM" sign for time setting.

(3) \oplus , \ominus , \otimes , \oslash , \equiv Function command and equal keys:

Performs the four basic calculations when these keys are pressed as in the formula. An incorrect function command (\oplus , \ominus , \otimes or \oslash) is automatically cleared by the correct function commands.

(4) $\text{M}+$ ($\text{M}-$) Memory plus (minus) key:

Transfers the displayed number to the memory positively (negatively). Obtains answer in four functions and automatically accumulates it into the memory positively (negatively).

2

(5) MR Memory recall key:

Recalls the contents of the memory without clearing.

(6) MC Memory clear key:

Clears the contents of the memory. Even if the MC key is pressed while calculating, it clears only the memory and does not affect the calculation at all.

(7) $\%$ Percent key:

Performs percentage calculations including add-ons, discounts and mark-ups.

(8) $\sqrt{\square}$ Square root key:

Extracts the square root of a displayed number.

(9) C Clear key:

Clears entry for correction.


(10) AC All clear key:

Clears the entire machine except the memory, and releases overflow or error check.


3

(11)  **Time key:**

Starts the clock with a time signal when pressed after setting the time. Enters hour and minute for setting the clock or alarm. Recalls the clock to display when pressed after the **AC** key. Performs time calculations.

(12)  **Time set key:**

Sets the time for clock or alarm after entering time.

(13)  **Alarm key:**

Activates the alarm when pressed after setting the time.

(14)  **Time recall key:**

Retrieves the time preset for alarm. Stops the buzzer of alarm.

2/CARE OF YOUR UNIT

- * Since the unit contains precise electronic components, never attempt to disassemble it. For servicing contact your retailer or nearby dealer.
- * Be careful not to drop the unit or handle it roughly. Avoid operating keys roughly.
- * Avoid using the unit in extreme temperatures (below 32°F or 0°C, or above 104°F or 40°C). Also protect the unit from extremely dusty or humid conditions.
- * Never use volatile fluid such as lacquer thinner, benzine, etc. for cleaning the unit.

3/BATTERY MAINTENANCE

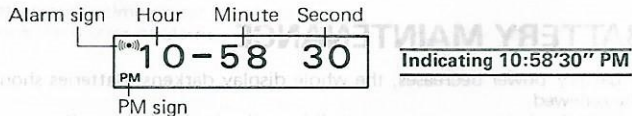
When battery power decreases, the whole display darkens. Batteries should then be renewed.

Slide open the battery compartment lid on the back of the unit, remove dead batteries and insert new batteries with the polarities as indicated.

- * Be sure to replace both batteries.
- * After replacing batteries, be sure to press the all reset button (⊙) on the back of the unit with a pointed object such as a pencil.
- * Do not leave dead batteries in the battery compartment as they may cause malfunctions.
- * It is recommended that batteries be replaced once a year to prevent the chance of malfunctions due to battery leakage.
- * Removing the batteries clears the time and alarm.
- * *For battery specifications, refer to page 12.*

4/CLOCK

■ Read-out example



- * The alarm sign does not appear when the alarm is not preset.

■ Setting time

- * It is advisable to set a time one or two minutes ahead of a time signal to be prepared for accurate time setting.

EXAMPLE OPERATION READ-OUT

Setting 2:53 PM

	AC	0.
(Entry of hour)	2 TIME	2-
(Entry of minute)	53 TIME	2-53
(PM sign)	PM	2-53 PM
	SET	2-53 PM

(For entry of 2:00, for example, press in sequence.)

→ (When entering AM, pressing of is not required.)

With this operation, you are ready for time setting. Now press on the time signal from a radio, telephone or other correct time indicator.

(Time signal of 2:53 PM)	TIME	2-53 00
		PM

* The clock will now keep time accurately and continuously. When a big gain (or loss) occurs or batteries are replaced, follow the above operations to reset.

* When the time is entered in 24-hour system it is automatically reconverted to 12-hour system.

It is necessary, however, to enter the PM sign for the time range, 12:00 PM to 12:59 PM.

* To retrieve the time display while calculating, press **AC** **TIME** in sequence.

5/ALARM

■ Setting alarm

* Alarm can be set at 1 minute units.

EXAMPLE OPERATION READ-OUT

Setting the alarm at 7:30 PM

(Entry of hour and minute) 7 **TIME** 30 **TIME**

AC	0.	
	7-30	
PM	7-30	→ (AM settings do not require this step.)
SET ALARM	(•••) 7-30 00	→ (The "•••" sign indicates that alarm is set.)

With this operation, the alarm setting is complete and the electronic buzzer sounds at 7:30 PM every day.

* Once alarm is set, the electronic buzzer sounds for 60 seconds at the preset time every day until cleared.

* To stop the buzzer while sounding, press the **RECALL** key.

Note:

- 1) The preset alarm time can be changed by new alarm setting.
- 2) To clear alarm setting, press **AC** **SET ALARM** in sequence.

6/CALCULATOR

- * Press the **AC** key before starting calculations.
- * Calculations can be performed without affecting the clock and alarm functions.
- * If time is retrieved while calculating, calculation is cleared except the memory.
- * Constant calculations can not be performed.
- * Overflow or error is indicated by an "E" sign and stops the calculation.

Overflow or error occurs:

- When the integer part of an answer, whether intermediate or final, exceeds 8 digits (7 digits for negatives).
However, the significant digits of the answer are displayed and the decimal point indicates that the true decimal position is 8 digits to the right.
- When the integer part of an accumulated total in the memory exceeds 8 digits (7 digits for negatives).

To release the overflow check, press the **AC** key.

7/SPECIFICATIONS

■ TIMEPIECE (Clock and alarm)

Accuracy: Within ± 3 seconds per day ($15^{\circ}\text{C} - 35^{\circ}\text{C}$ or $59^{\circ}\text{F} - 95^{\circ}\text{F}$).

Read-out: 12-hour system digital display of hour, minute, second, PM and alarm sign (☀).

Time setting: Direct setting by key operation.

Alarm: Electronic buzzer (Sounds for 60 seconds).

■ CALCULATOR

Abilities: Four basic calculations, memory calculations, percentage calculations including add-ons/discounts and mark-ups, square roots and time calculations.

Capacity: Entry/Four basic calculations8 digits including minus (-) sign.
Time calculations99 hours 59 minutes 59 seconds
- minus 9 hours 59 minutes 59 seconds.

Read-out: Suppresses unnecessary 0's (zeros).

Decimal point: Full floating with underflow.

Overflow check: Indicated by an "E" sign, locking the calculator.

Negative number: Indicated by floating minus sign.

■ TYPE OF READ-OUT

Liquid crystal.

■ MAIN COMPONENT

One chip C-MOS-LSI, crystal oscillator.

■ POWER CONSUMPTION

0.019 W

■ POWER SOURCE

Two AA size manganese dry batteries (UM-3) give approximately 14 months continuous operation (approx. 17 months on type SUM-3).

■ AMBIENT TEMPERATURE RANGE

0°C — 40°C (32°F — 104°F)

■ DIMENSIONS

20 mm H x 71.5 mm W x 128 mm D (3/4"H x 2-3/4"W x 5"D)

■ WEIGHT

111 g (3.9 oz) including batteries.

CALCULATION EXAMPLES
RECHENBEISPIELE
EXEMPLES DE CALCULS
EJEMPLOS DE CALCULOS
ESEMPI DI CALCOLO

In

1/T

2/P * In den Rechenbeispielen werden ein Punkt für eine Dezimalstelle und ein Komma für Tausende verwendet.

3/B * Dans les exemples de calculs, un point est utilisé pour indiquer une fraction décimale et une virgule pour repérer les milliers.

4/Z * En los ejemplos de operaciones, se usa un punto para indicar las fracciones decimales y una coma para la separación cada tres dígitos.

5/W * Negli esempi che seguono, per motivi d'ordine tecnico, il punto viene usato al posto della virgola e la virgola al posto del punto.

Reck

- Basic calculation
- Vier Grundrechenarten
- Calculs de base

- Cálculos básicos
- Calcoli base

EXAMPLE BEISPIEL EXEMPLE EJEMPLO ESEMPIO	OPERATION BEDIENUNG OPERATION OPERACION OPERAZIONE	READ-OUT SICHTANZEIGE AFFICHAGE LECTURA LETTURA
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$$(12+3) \times 89 \div 7 = 190.71428$$

12 + 3 x 89 ÷ 7 = 190.71428

- * To perform a calculation commencing with a negative number, press **AC** **=** ENTRY in sequence.
- * Um eine Aufgabe mit einer negativen Zahl zu beginnen, die Tasten **AC** **=** EINGABE in dieser Reihenfolge drücken.
- * Pour exécuter un problème commençant par un nombre négatif, appuyer dans l'ordre sur **AC** **=** ENTREE.
- * Para realizar cálculos que comiencen con un número negativo, presionar **AC** **=** ENTRADA, en esa secuencia.

- * Per eseguire un problema che comincia con un negativo, premere **AC** **=** ENTRATA nella sequenza.

$$(-8) \times 5 \div 4 = -10$$

AC **=** 8 **x** 5 **÷** 4 **=**

-10.

- Memory calculations
- Speicherrechnungen
- Calculs avec mémoire
- Cálculos de memoria
- Calcoli con la memoria

- * Be sure to press the **MC** key prior to starting a memory calculation. When a number is stored in the memory, the "M" sign appears on the display.
- * Vor Beginn von Speicherrechnungen muß die **MC** Taste zweimal gedrückt werden. Wenn eine Zahl im Speicher gespeichert ist, dann erscheint das Speicher-symbol "M" in der Sichtanzeige.
- * Ne pas oublier d'appuyer deux fois de suite sur la touche **MC** avant de démarrer un calcul avec mémoire. Quand un nombre est stocké dans la mémoire, le signe "M" apparaît sur l'affichage.

* Assicurarsi di premere la tecla **MC** prima di cominciare un calcolo di memoria.

Quando se almacena un número en la memoria, el signo "M" aparece en la pantalla.

* Assicurarsi d'aver premuto due volte successivamente il tasto **MC** prima di cominciare ad eseguire calcoli con la memoria.

Quando un numero viene accumulato nella memoria, il simbolo "M" appare sul display di lettura.

$$53 + 6 = 59$$

MC 53 **+** 6 **M+**

M 59.

$$23 - 8 = 15$$

23 **-** 8 **M+**

M 15.

$$56 \times 2 = 112$$

56 **x** 2 **M+**

M 112.

$$\begin{array}{r} +) 99 \div 4 = 24.75 \\ \hline \end{array}$$

99 **÷** 4 **M+**

M 24.75

$$210.75$$

MR

M 210.75

$$7 + 7 - 7 + (2 \times 3) + (2 + 3)$$

$$= 19$$

MC 7 **M+** **M+** **M-** 2 **x** 3 **M+** **M+** **MR**

M 19.

■ Percentage calculations

■ Prozentrechnungen

■ Calculs de pourcentages

■ Cálculos de porcentajes

■ Calcoli di percentuale

12% of 1500 180

12% von 1500 180

12% de 1500 180

12% de 1500 180

Il 12% di 1500 180

1500 **x** 12 **%** 180.

Percentage of 660 against 880

. 75%

660 ist wieviel Prozent von 880

. 75%

Pourcentage de 660 par rapport

à 880 75%

Porcentaje de 660 contra 880

. 75%

La percentuale di 660 contro

880 75%

660 **÷** 880 **%** 75.

15% add-on of 25002875
 15% Aufschlag auf 2500 . .2875
 15% d'ajout sur 2500. . . .2875
 15% de aumento sobre 2500
2875
 Il 15% di maggiorazione su 2500
2875

$2500 \times 15\% +$ 2875.

25% discount of 3500 . . .2625
 25% Abschlag von 3500 . .2625
 25% d'escompte sur 3500 .2625
 25% de descuento sobre 3500
2625
 Il 25% di sconto su 3500. .2625

$3500 \times 25\% -$ 2625.

Mark-up (To fix the selling price)
 What will the selling price and profit be when the purchasing price of an item is \$480 and the profit rate to the selling price is 25%?

$480 + 25\%$ 640.

(Selling price)
 (Verkaufspreis)
 (Prix de vente)
 (Precio de venta)
 (Prezzo di vendita)

Prozentsatz

(Bestimmung des Verkaufspreises)
 Berechne den Verkaufspreis und den Gewinn, wenn der Einkaufspreis einer Ware \$480 beträgt und der Gewinn 25% des Verkaufspreises ist.

Hausse

(Pour déterminer le prix de vente)
 Quels seront le prix de vente et le profit quand le prix d'achat d'un article est de \$480 et le taux de profit sur le prix de vente égal à 25%?

Recargo

(Para fijar el precio de venta)
 ¿Cuál será el precio de venta y la ganancia cuando el precio de compra de un artículo es de \$480 y la relación de ganancia sobre el precio de venta es de un 25%?

(Subsequently) = 160.
 (Daher)
 (Ensuite)
 (Subsecuentelemente)
 (Consequentelemente)
 (Profit)
 (Gewinn)
 (Profit)
 (Ganancia)
 (Profitto)

Rialzo

(Per fissare il prezzo di vendita)

Quale deve essere il prezzo di vendita ed il profitto quando il prezzo d'acquisto di un articolo è di 480\$ ed il tasso di profitto sulla vendita deve essere del 25%?

Increase/decrease

If you made \$80 last week and \$100 this week, what is the percent increase?

Erhöhung/Verminderung

Berechne die Zuwachsrate, wenn der Gewinn in der letzten Woche \$80 und in dieser Woche \$100 betrug.

Augmentation/diminution

Si vous avez gagné \$80 la semaine dernière et \$100 cette semaine, quel est le pourcentage d'augmentation?

$$100 - 80 = \boxed{25.}$$

(%)

Incrementos y disminuciones

Si usted ganó \$80 la semana anterior y \$100 esta semana, ¿cuál es el porcentaje de incremento?

Aumento/diminuzione

Se si sono guadagnati 80\$ la settimana scorsa e 100\$ questa settimana, quale è la percentuale d'aumento?

■ Square roots

■ Quadratwurzel

■ Racines carrées

■ Raíces cuadradas

■ Radici quadrate

- * The minus (—) sign appears when a negative figure is extracted.
- * Das Minuszeichen (—) erscheint, wenn die Quadratwurzel aus einer negativen Zahl gezogen wird.
- * Le signe moins (—) apparaît quand une configuration négative est extraite.
- * El signo menos (—) aparece cada vez que la cifra extraída es negativa.
- * Il segno meno (—) appare quando viene estratto un numero negativo.

$$\sqrt{3}=1.7320508$$

$$\sqrt{7+2\sqrt{5}}\doteq 3.387054$$

3 <input checked="" type="checkbox"/>	1.7320508
5 <input checked="" type="checkbox"/>	2.2360679
<input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/>	11.472135
<input checked="" type="checkbox"/>	3.387054

- Time calculations
- Zeitrechnungen
- Calculs de temps

- Cálculos de tiempo
- Calcoli di tempo

Read-out example:

Anzeigebeispiel:

Exemple d'affichage:

Ejemplo de lectura de la pantalla:

Esempio di lettura:

63-52 41

Equals 63 hours 52 minutes 41 seconds.
Bedeutet: 63 Stunden, 52 Minuten und 41 Sekunden.

Egale 63 heures 52 minutes 41 secondes.
Es igual a 63 horas, 52 minutos y 41 segundos.

Uguale a 63 ore 52 minuti 41 secondi.

* The sexagesimal notation is from minus 9 hours 59 minutes 59 seconds to 99 hours 59 minutes 59 seconds.

When an answer, whether intermediate or final, is outside the above range, it converts to decimal notation.

Pressing the $\overline{\text{TIME}}$ key after = converts the answer obtained as a sexagesimal to the decimal notation.

Decimal notation can be re-converted to sexagesimal by the $\overline{\text{TIME}}$ key.
When hour is 0, entry of 0 is necessary.

* Der Bereich der Hexagesimalanzeige reicht von minus 9 Stunden, 59 Minuten und 59 Sekunden bis zu plus 99 Stunden, 59 Minuten und 59 Sekunden.

Liegt ein Ergebnis, sei dies nun ein Zwischen- oder ein Endergebnis, außerhalb dieses Bereiches, dann erfolgt die Anzeige automatisch als Dezimalzahl.

Durch Drücken der $\overline{\text{TIME}}$ Taste nach der = Taste wird das als Hexagesimalzahl erhaltene Ergebnis in eine Dezimalzahl verwandelt.

Die Dezimalzahl kann durch Drücken der $\overline{\text{TIME}}$ Taste wiederum in eine Hexagesimalzahl umgewandelt werden.

Wenn die Stundenzahl 0 (Null) beträgt, muß die 0 (Null) nicht eingegeben werden.

- * La gamme pour la notation sexagésimale va de moins 9 heures 59 minutes 59 secondes à 99 heures 59 minutes 59 secondes.
 Quand une réponse, intermédiaire ou finale, est hors de la gamme ci-dessus, elle est convertie en notation décimale.
 L'appui sur la touche TIME après la touche = convertit la réponse sexagésimale en notation décimale.
 La touche TIME permet de reconverter la notation décimale à l'échelle sexagésimale.
 Quand l'heure est égale à 0, l'entrée de 0 est nécessaire.

- * La franja para notación sexagesimal es desde menos 9 horas, 59 minutos y 59 segundos, hasta 99 horas, 59 minutos y 59 segundos.
 Cuando una respuesta, ya sea intermedia o final, queda fuera de la franja mencionada anteriormente, ésta se convierte a notación decimal.
 Al presionar la tecla TIME luego de la tecla = , se convierte una respuesta obtenida como sexagesimal a la escala decimal.
 Las notaciones decimales pueden ser reconvertidas a la escala sexagesimal por medio de la tecla TIME .
 Cuando la hora es 0, es necesario introducir el 0.

- * La gamma per la notazione sessagesimale è da meno 9 ore 59 minuti 59 secondi a 99 ore 59 minuti 59 secondi.
 Quando una risposta eccede la su citata gamma la risposta viene automaticamente convertita alla notazione decimale.
 Premendo il tasto TIME dopo il tasto = si converte la risposta ottenuta come sessagesimo alla scala decimale.
 La scala decimale può essere riconvertita alla notazione sessagesimale per mezzo del tasto TIME .
 Quando l'ora è 0 l'entrata di 0 è necessaria.

1 hour 20 minutes 30 seconds	TIME	20	TIME	30	+	1-20	30
+) 8 hours 8 minutes 10 seconds	TIME	8	TIME	8	TIME	10	=
9 hours 28 minutes 40 seconds							
1 Stunde 20 Minuten 30 Sekunden							
+) 8 Stunden 8 Minuten 10 Sekunden							
9 Stunden 28 Minuten 40 Sekunden							
1 heure 20 minutes 30 secondes							
+) 8 heures 8 minutes 10 secondes							
9 heures 28 minutes 40 secondes							
							9.47777

	1 hora	20 minutos	30 segundos
+) 8 horas	8 minutos	10 segundos	
<hr/>			
	9 horas	28 minutos	40 segundos

	1 ora	20 minuti	30 secondi
+) 8 ore	8 minuti	10 secondi	
<hr/>			
	9 ore	28 minuti	40 secondi

	1 hour	0 minute	32 seconds	1 <input type="text"/> <input type="text"/> 32 =	1-00 32
-)		45 minutes			
<hr/>					
		15 minutes	32 seconds	0 <input type="text"/> <input type="text"/> 45 =	0-15 32

	1 Stunde	0 Minuten	32 Sekunden
-)		45 Minuten	
<hr/>			
		15 Minuten	32 Sekunden

	1 heure	0 minute	32 secondes
-)		45 minutes	
<hr/>			
		15 minutes	32 secondes

	1 hora	0 minuto	32 segundos
-)		45 minutos	
<hr/>			
		15 minutos	32 segundos

	1 ora	0 minuti	32 secondi
-)		45 minuti	
<hr/>			
		15 minuti	32 secondi

5 hours 30 minutes x 300 = 1650

5 Stunden 30 Minuten x 300 = 1650

5 heures 30 minutes x 300 = 1650

5 horas 30 minutos x 300 = 1650

5 ore 30 minuti x 300 = 1650

5 30 300 = 1650.

- Invoicing
- Faktura
- Facturation

- Facturación
- Fatturazione

Article Artikel Article Artículo Articolo	Quantity Anzahl Quantité Cantidad Quantità	Unit price Einheitspreis Prix unitaire Precio unitario Prezzo unitario	Discount Rabatt Escompte Descuento Sconto	Amount Betrag Montant Monto Ammontò
A	250	\$56	5%	\$13,300.00
B	380	96	8	33,561.60
C	420	73	7	28,513.80
Total/Summe/Total/Total/Totale				75,375.40
5% sales tax/5% Umsatzsteuer/ 5% de taxes sur les ventes/5% de impuesto a la venta/ 5% tassa di vendita				3,768.77
Grand total/Gesamtsumme/Total général/ Total general/Totale generale				\$79,144.17



MC 250 x 56 x 5 % = M+
 380 x 96 x 8 % = M+
 420 x 73 x 7 % = M+
 MR
 x 5 %
 +

M	13300.
M	33561.6
M	28513.8
M	75375.4
M	3768.77
M	79144.17

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