

Scientific Calculator

Deer Customer.

- Thank you very much for purchasing our electronic calculator.
- To fully utilize its features no special training is required, but we suggest you study this operation manual to become familiar with its many abilities.
- To help ensure its longevity do not touch the inside of the calculator, avoid hard knocks and unduly strong key pressing. Extreme cold (BELOW 32° or 0° C), heat (above 104°F or 40°C) and humidity may also affect the functions of the calculator. Never use volatile fluid such as lacquer thinner, benzine, etc. when cleaning the unit. FOR servicing, contact your retailer or nearby dealer.

Before starting calculation, be sure to press the $\boxed{\text{ON/C}}$ key and to confirm that "0" is shown in the display.

Special care should be taken not to damage the unit by bending or dropping. For example, do not carry it in your hip pocket.

		THE KEYBOARD		
1 000	8 n!	13 π.A	22 ÷	②
2 STAT	9 - 1000	16 × 9 B	23	30 ·
③ ஊ	(1) ex E	⊕ 🚝	24	31 =
(4) (MG)	(1) 10x p	(1) 10x	25 🖽	
(5) are byp	(12) *re	19 📩	28 20	
6 sin cos tan	(13 °xy	20 nxx	27 RM	
TAB F-E	(14) €	2) 0 ~ 9	(28) M-	

OPERATING CONTROLS (1) OFF When this key is depressed, the calculator is turned off. Automatic Power-Off Function.(A.P.O.) This calculator is automatically turned off approximately 8 minutes after the last key operation to save the batteries.

Power on and clear/statistical calculation mode key Push this key to turn the calculator on. It is ready for operation. When pushed during operation it clears the calculator except for the memory.

Tor rise memory.

Statistical program will be activated.

When the calculator is set to the statistical calculation mode through these keys the symbol.

TAT ** appears, and at the same time the numerical values and calculation commands, except for memory contents are cleared. Meanwhile, in the Smot STAT

3 Indf 2nd function designation key

(4) DRO Degree/Radian/Grad selector/angular unit conversion key

Used for calculation of trigonometric, inverse trigonometric and coordinate conversion. The [psq] key changes the angular

DEG -RAD -(Press pag)

Ex. DEG - GRAD: Depress the peop key twice. "DEG" mode- Entries and answers are in decimal degrees. "RAD" mode- Entries and answers are in radians. "GRAD" mode- Entries and answers are in grads.

 $(100^9 = 90^\circ = \frac{\pi}{2})$ It has the function of the BRG key as well as converting the displayed number into a number of the spectified angular Mode.

(5) hyp Hyperbolic/archyperbolic key 6 004 Trigonometric/inverse trigonmetric function key 7 TAB

Display format exchange/Tabulation key When a calculation result is displayed in the floating decimal point system, depressing the key displays the result in the scientific notation system.

Pushing the key once more displays the result in the floating decimal point system again. 2MF TAB : To sepoify the number of decimal digits in the calculation result. 8 n! Clear entry/Factorial key CE : Used to clear an incorrectly entered number. 123 · 456 CE 456 = - 579. Calculates the factorial of the displayed number. Factorial of n(n1) = n · (n-1) · (n-2) ··· · 2 · 1 Degree/minute/second -- Decimal degrees conversion/hexadecimal number key 9 000 cen indicate to convert degree/minute/second to decimal degree and vice versa.

D: Hexadecimal number *D* key. (effective only in hexadecimal number mode - HEX mode) 10 ex E Natural logarithm/antilogarithm and hexadecimal number key In : Used to obtain the logarithm base e (e=2.718281828). and ex: Calculates the antilogarithm base e of the displayed numb E: HEX mode) Hesadecimal number " E" key. (1) 10z F Common logarithm/antilogarithm and hexadecimal number key log : Used to obtain the logarithm with the base of 10. me 102 : Calculates the antilogarithm with the base of 10. F: HEX mode)
Hesadecimal number * F* key. 12 18 Real number enter/coordinate conversion key a: • This is used when the real parts of complex numbers are to be input and when identifying the real parts of calculation results.

This is used during coordinate conversions when the X coordinate of the Rectangular coordinates (X, Y) is input or when the-r of the polar coordinates (r, θ) is input. It is also used for identifying the calculated values of X or r. andF +18: Converts rectangular coordinate into polar coordinate. Imaginary number enter/coordinate conversion key This is used when the imaginary parts of complex numbers This is used when the imaginary parts of complex numbers are to be input and when identifying the imaginary parts of the calculation results. This is used during coordinate conversions when the Y coordinate of the Rectangular coordinates (X, Y) is input or when the θ of the polar coordinates $\{r,\theta\}$ is input. It is also used for identifying the calculated values of Y or θ . and -xy: Converts polar coordinate into rectangular coordinate. Right shift/complex number mode key = : Example 1 12356 → 45 - 12346.

2) 5 EXP 24 - - 5. 00

[28dF] GPLX : Used to set the complex number mode.

Enter exponent/pl and hexadecimal number key

EXP: To enter number in scientific notation.

 π : The constant I (π =3.141592654) is entered

Hexadecimal number "A" key.

A : HEX mode

5. 35

 $\forall x \ / \ \ ^{\chi /\overline{\gamma }}$ and hexadecimal number key DISPLAY (yx): Raises a number to a power. (1) Display format and (%): Calculates the X th root of Y. (Floating decimal system, notmal display) B : HEX mode 1234567890 Hexadecimal number "B" key. 10 10 Square root/cube root and hexadecimal number key Calculates the square root of the number displayed. 2ndF DEG **# 1.2345678** (Scientific notation system) and [3/c]: Calculates the cube root of the number displayed, c : HEX mode Hexadecimal number "C" key. Mantiasa Exponent (18) 1/X Square/reciprocal key (2) Symbols x^{\pm} : Calculates a square of the number displayed. Minus symbol (1-X): Calculates the reciprocal of the number displayed. Indicates that the number in the display following the "-" is a nega-19 📩 Open parenthesis/exchange key Memory symbol E31 : (): Used to open parenthesis. Appears when a number is stored in the memory. F. Error symbol 2ndF 1 Used to exchange the number being displayed with the number stored in the working register (x - y)Appears when an overflow of an error is detected. 2ndF: 2nd function designation symbol (20) Appears when the 2nd function is designated. Close parenthesis/statistical calculation key Used to close parenthesis. Hyperbolic function designation symbol HYP: Appears when hyperbolic function is designated. When the statistical mode is set. DEG: Degree mode symbol n: Displays the number of samples entered. (n) Appears when the degree mode is designated or shows that the angular mode of the converted result is in degree. Σx : Used to obtain the sum of the data (ΣX) (21) 0 - 9 Numeral keys Radian mode symbol BAD: Used to enter numbers. Appears when the radian mode is designated or shows that the angular mode of the converted result is in radian. Division/binary number mode key (22) GRAD: Grad mode symbol ÷: Depressed for division. Appears when the grad mode is designated, or shows that the angular (and) (and): Used to set the binary system mode.

Converts the number displayed into a number in base 2. mode of the converted result is in grad. (): Parenthesis symbol Appears when a calculation with parenthesis is performed by depressing the C Key. (23) Multiplication/octai number mode key X: Depressed for multiplication. EIN : Appears when the binary system mode is set or shows the displayed (sed) Second : Used to set the octal system mode.

Converts the number displayed into a number in base 8. number is a binary number Appears when the octal system mode is set or shows the displayed -6600 (24) Minus/hexadecimal number mode key number is an octal number - : Depressed for subtraction. Appears when the hexadecimal system mode is set or shows the dis-2ndF exts : Used to set the hexadecimal system mode. Converts the number displayed into a number in base 16. played number is a hexadecimal number. PIR: Appears when the complex number mode is set. + Plus/decimal number mode key (25) EXAL: Appears when the statistical calculation mode is set. 1 : Depressed for addition. (3) Display system (normal mode). This machine displays a calculation result (x), if it is within the following range. Converts the number displayed into a number in base 10. 26 E-W In the floating decimal point system. Memory-in/statistical calculation key 0.000000001 5 12 5 999999999 (I-w): Clears the number in the memory then stores the number being displayed in the memory.

To clear the memory depress the [awo key followed by the [aw] key. And otherwise the machine displays |x| in the scientific notation system. However a calculation result within the above range is also capable of being displayed in the scientific notation system by pressing the $\overline{F-E}$ key · When the statistical mode is set. Example: ZMF TAB 9 \mathfrak{F} : Used to obtain the mean value of the data. (\tilde{X}) • 5 ÷ 9 = -0.055555556 (The 10th decimal place is rounded.) Σx : Used to obtain the sum of squares of data. Σx^2 . 27 RM - 5.555555 - 02 (The 10th decimal place of the man-F-F Recall memory/statistical calculation key RM Displays the contents of the memory. The contents of the memory remain unchanged after this key operation tissa is rounded.) When the statistical mode is set. S: Used to obtain the standard deviation of the sample of data. F-E - 0.05555556 amp TAB + - 0.05555556 [mill]: Used to obtain the standard deviation of the population O.Ubbbbbbb This is determined by the calcullator in the form of 5.8555555555 x 10-2 Rounding the 11th digit of the man-tissa results in 5.55555555 x 10-2 When changed to the floating decimal display, the rounded parts may not be displayed as in this example. of data. (28) M. Memory plus/DATA CD key M+ : Used to add the number being displayed or a calculated result to the contents of the memory. When subtracting a number from the memory, depress the $\frac{1}{2}$ and $\frac{1}{M+1}$ keys in this order. · When the statistical mode is set. BATTERY REPLACEMENT sats : Used to enter the data (numbers). If the display becomes dark or dim., replace the batteries with new ones according to the following procedure. (delete function) (29) Change sign key Battery: Function on Changes the sign of the number displayed from a positive to a negative 2pcs AA in 1.5V or vice versa Example 5 (+/-) → -5. Turn off the calculator. Remove the back cover. Replaces the batteries (see * for)correct battery replacement).
Push in the back cover. (30) Decimal point/random number key 12.8 1 2 • 3 0.7 - • 7 After the replacement, press the OFF and ON/C keys in this order to clear When the batteries are correctly installed 'DEGO.' will be displayed. (If the display shows nothing or a meaningless symbol, or the keys become inoperative, remove the batteries and install them again. Press OFF and ON/C Keys in this order and check the display again.) RND: These keys are used to generate uniform random numbers from 0.000 to 0.999

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Note: - wipe off the surface of the new batteries with dry cloth and then install the batteries.

Always replace both of the batteries at the same time.

Random number generation is not possible when binary/octal/hexadecimal system mode is set.

Used for the percentage calculation and add-on/discount Calcula-

=: Completes four arithmetic calculations (+, -, x, +), $\sqrt[x]{y}$, y^x ,

and complex number calculations.

Equals/percent key

tion.

andF % :

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