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Ti-30x solar manual

Texas Instruments TI-30X SOLAR Starting with the first TI-30 with a red LED display in 1976 all TI-30 variants used an 8-digit display. This is for most convenient calculations, but in scientific notation you will get only 5 digits of mantissa. The TI-30X introduced a major improvement, the display capability was expanded to a full 10-digit mantissa with two independent digits for the exponent. The 4 models covered by the X family: the disassembly of the TI-30X SOLAR reveals a novel construction based on a rubber keyboard that presses on a flexible printed circuit board (PCB) with a connected rigid board that supports a Toshiba T6M38 single-chip calculator circuit. Read more about the logarithm error and its side effect on the related yx function present in this calculator. Later the TI-30Xa added a constant key and all models achieved a more elegant housing. The same house was used with the BA Real Estate. If you have additions to the previous item, please email: joerg@datamath.org. © Joerg Woerner, 5 December 2001. There are no reprints without written permission. If you have to find a page, you probably have a problem and you need a user manual for the device Texas Instruments TI-30Xa Solar. Remember to check if it's the exact manual for the device you're looking for. In our database Texas Instruments TI-30Xa Solar it belongs to the category category. A manual Texas Instruments TI-30Xa Solar is from the manufacturer, the company Texas Instruments - it is an official document and if you have questions about its contents, please contact the manufacturer of the device Texas Instruments TI-30Xa Solar directly. The Texas Instruments TI-30Xa Solar manual can be viewed directly online or saved and stored on your computer. 30XA/OM/1L5 exas Inst©rum19e9n8tsT Gedruckt auf Recycling-Papier D echt-The Ne3th5e4r2laCndGgr dweg 102Rutherford . eTexas Instruments Holland B.V Dallas, TX 75251 7800 Banner Dr . eTexas Instruments U.S.A. TI-30Xa/30Xa Solar, English www.ti.com/calc ti-cares@ti.com 2 . 87 In addition to the manual Texas Instruments TI-30Xa Solar we provide a support panel that will solve your problems with Texas Instruments TI-30Xa Solar. If you have any questions, you can write them on the form below. Others who come in here have the opportunity to help you solve your problem with Texas Instruments TI-30Xa Solar. Remember that you can also share your solution. If you have achieved the problem, please write here the description and solution of the problem with Texas Instruments TI-30Xa Solar - surely safe to many users. T exas Instruments Holland B.V.Rutherfordweg 1023542 CG Utrecht-The NetherlandsT exas Instruments U.S.A.7800 Banner Dr . Dallas Dallas 1998 T exas Instrumts Gedruckt auf Recycling-Papier30XA/OM/1L5TI-3 0Xa/30Xa Solar, English 2,875.38 5.38TI-30Xa/30Xa Solar, English www.ti.com/calc ti-cares@ti.com2.87Texas Instruments U.S.A.7800 Banner Dr.Dallas, TX 75251Texas Instruments Holland B.V.Rutherfordweg 1023542 CG Utrecht-The NetherlandsGedruckt auf Recycling-Papier D© 1998 Texas Instruments 30XA/OM/1L5 Summary of content on page 2 IT -30Xa and TI-30Xa SOLAR Scientific Calculators Basic Operations 2 Results 3 Basic Arithmetic 3 Percentages 4 Fractions 5 Powers and Roots 6 Logarithmic Functions 6 Angular Units 7 DMS Summary of the content included on page 3 Basic Operations TI-30Xa (battery) - turns on the TI-30Xa. The TI-30Xa application application screen and clears the display, settings, and pending operations, but not the memory. • APD™ (Auto Power Off™) turns off the TI-30Xa automatically if no key is pressed for about 5 minutes, but does not clear the screen, settings, pending operations, or memory. Note: After APD retrieves the display, pending operations, configuration, and memory. TI-30Xa Solar - To turn on the TI-30Xa Solar, Expose the solar panel to light and pres Summary of the content included on page 4 Results The calculator can display up to 10 digits plus a minus sign (-9,999,999,999 to 9,999,999,999) and a 2-digit exponent. Results with more than 10 digits are shown in scientific notation. Basic arithmetic D > 8 2 60 D 5 8 12 J 120. J Completes all pending operations. With constant (K), repeat the operation and value. Or Change the value signal you just entered. 1 D 8 O D 12 J 5. 6 7 Expression in parentheses (up to 15 open). J closes all open parentheses. Pi is calculated with 12 digits (3.1 Summary of content on page 5 Percentage (5% of 250) 250 8 5 or 0.05 J 12.5 Ratio (Ratio 250 to 5) 250 2 5 or 0.05 J 5000. Add-on (5% add-on of 250) 250 D 5 or 12.5 J 262.5 Discount (5% discount of 250) 250 > 5 or 12.5 J 237.5 4 TI30XAUS. DOC MURFE Pruning Pat Hatcher Revised: 06/17/99 4:31 PM Printed: 06/17/99 4:32 PM Page 4 of 21 Summary of content on page 6 Fractions b F c Insert an adequate or inadequate fraction, b (6 digits, c to 3 digits). When possible, incorrect fractions are displayed as mixed numbers. 3 F 4 3 -4 8 3 J 21 -4 Single-variety functions display decimal results. 1 F 2 0 0.25 to F b F c Enters the mixed fraction a b.c. (a, b, c to 3 digits each, with the total number of digits 8). 6 F 4 F 6 64-6 J 62-3 s Toggles the display between a mixed number and an incorrect fraction. 30 F 4 30-4 s 71 s 2 s 15 s 71 s 2 and Toggles the display between the Summary of content included on page 7 Powers and Roots / 8 / D 4 / J 0.375 0 6 0 D 2 J 38. 1 256 1 D 4 1 J 18. t 2 t D 2 J 10. z 8 z D 4 J 6. , 5 , 3 J 125. And 8 and 3 J 2. Logarithmic functions \$ 15.32 \$ 1.185258765 D 12.45 \$ J 2.280428117 R 2 R > 10 0 J 0. % 15.32 % 2.729159164 D 12.45 % J 5.250879787 S .693 S 1.45 % J 5.250879787 S .693 S 1. 999705661 D 1 J 2.999705661 (e-2.71828182846) 6 TI30XAUS. DOC MURFE Pruning Pat Hatcher Revised: 06/17/99 4:31 PM Printed: 06/17/99 4:32 PM Page 6 of 21 Summary of content included on page 8 Angle units - Angular unit adjustment cycles between degrees, radians and degrees without affecting the displayed number. Q Cycles (converts) angle unit adjustment between degrees, radians, and degrees for display, input, and calculation. 45 DEG 45 Q RAD 0.785398163 Q GRAD 50. Q DEG 45. DMS Enter DMS values (degrees/minutes/seconds) as D.MMSS, using 0s as needed: D degrees (0-7 digits) . Decimal point separator MM Minutes (must be 2 digits) SS seconds (must be 2 digits) s fractional part of a second Summary of content included on page 9 Rectangular to Polar k converts rectangular coordinates (x,y) to polar coordinates (r,q). Convert rectangular coordinates (10,8) to polar. • (if necessary) SED 10 [8 DEG 8 k (r) SDS r 12.80624847 (screen) [q DEG 38.65980825 Polar to Rectangular and converts polar coordinates (r,q) to rectangular coordinates (x,y). Convert the polar coordinates (5,30) to rectangular. • (if necessary) SED 5 [30 DEG 30 e (screen x) SDS x 4.330127019 [(show y) DEG 2.5 8 TI30XAUS. DOC M Summary of content on page 10 Trigonometric Functions Before using trigonometric functions (), * , + , V, W, or X), select DEG, RAD, or GRAD with . Note: Before using a DMS value in a calculation, you must convert it to decimal with q. (if necessary) - DEG 90) SD 1. > 30 * DEG 0.866025404 J DEG 0.133974596 1 V DEG 90. > ; 5 J DEG 89.5 Hyperbolic functions To access hyperbolic functions, press (and then the function ((), (* , (+ , (V, (W, (X). Note: DEG, RAD, or GRAD does not affect the hyperbolic calculation Summary of content on page 11 Statistics of a variable h Deletes all statistical data. 4 Enter a data point. a Removes a data point. - Adds or removes multiple occurrences of a data point. the data point, press , enter the frequency frequency press 4 to add or to delete data points. (c) Sum. d Sum of squares.] Say. _ Population standard deviation (n weighting). - Standard deviation of the sample (weight n-1). b Number of data points. 10 TI30XAUS. DOC MURFE Pruning Pat Hatcher Revised: 06/17/99 4:31 PM Summary of content on page 12 Find the sum, mean, population standard deviation, and sample standard deviation for the dataset: 45, 55, 55, 55, 60, 80. The last data point is entered erroneously as 8, deleted with a, and then entered correctly as 80. h (if STAT is shown) 45 4 n- 1 55 , 3 4 n, 4 60 4 n, 5 8 4, 6 8 to 5 80 4 n, 6 c (sum) 350. (average) 58.3333333_ (deviation, n weight) 10.67187373 (deviation, weight n-1) 11.69045194 11 TI30XAUS. DOC MURFE Pruning Pat Hatcher Revised: 06/1 2598960. A permutation is an arrangement of objects in which order is important, as in a race. j calculates the number of possible permutations of n elements taken r at a time. Calculate the number of possible Content Results of the content included on page 14 Page Compensation and Correction ? (battery) Clear the value (before the operation key) & (solar) and . but not , or . K M1 M2 M3 M3 STATISTICS ? Clears the display, errors, all pending operations (battery) and K, but not M1, M2, M3 or & & (solar) STAT. | Clears the display, errors, all pending operations (battery), K and STAT, but not M1, M2, and M3. Sets DEG angle units, floating decimal format. ! (solar) Clears the display, errors, all pending operations, K, STAT, M1, M2, and M3. Set DEG Angle Units, Floating-Decimal Summary of content included on page 15 Memory The calculator has 3 memories. When a memory contains a number other than 0, M1, M2, or M3 is displayed. To erase a single memory, press 0 : 1, 0 : 2 or 0 : 3. To erase the 3 memories (solar only), press ! : n Stores the displayed value in memory n, replacing the current value. 23 : 1 M1 23. D 2 J M1 25. • n Retrieves the value in memory n. (continued) to 1 M1 23. D 3 J M1 26. m n Adds the displayed value to memory n. (continued) 4 m 1 M1 4. 1 M1 27. g n Displayed exchanges and memory values. (summary of the content included on page 16 Operation Order 1st Expressions in parentheses continued. 2nd Single-variety functions performing the calculation and the result immediately (square, square root, cube root, trigonometric, factorial, logarithmic, percentage, reciprocal, angle conversions). 3a Combinations and permutations. 4th Exponentiation and roots. 5th Multiplication and division. 6th Addition and Division. 6th Addition and Division. 6th Addition and Division. Division. 7a J completes all operations. The TI-30Xa uses AOSé (Algebraic Operating System). Store up to 4 Content Summary on page 17 Notation or Select Scientific Notation. 12345 J 12345. 04 or SCI 1.2345 p Selects engineering notation (exponent is a multiple of 3). (continued) 03 p ENG 12.345 n Restores the standard notation format (floating-decimal). • n Sets the decimal places to n (0-9), preserving the notation format. (continued) 03 to 2 FIX 12.35 03 to 4 FIX 12.3450 - N Removes fixed decimal settings. 5 Enter the exponent. You can enter a value in decimal, fixed decimal, or scientific floating notation, regardless of or Summary of the content included on page 18 Display Indicators M1, M2, or M3 A value other than 0 in M1, M2, or M3. 2a Calculator will access the 2nd function (printed above the key) of the next key pressed. HYP Calculator will access the hyperbolic function of the next pressed key. SCI or ENG Scientific or engineering notation. CORRECT Fixed decimal adjustment. STAT The statistical record contains data. DEG, RAD, or Specifies angular unit settings (degrees, GRAD radians, or degrees). When you turn on the calculator, the angular units are degrees. x x polar x coordinate to re Summary of content included on page 19 Error conditions - Number, result or sum of memory x, where 99 x > 9,999999999 x 10 . More than 4 pending operations (2 when STAT is displayed) or more than 15 open parentheses per pending operation. For x!: x is not an integer between 0 and 69. x - To y : y x to 0 or y < 0 and x not an integer. x - For the value of y: x to 0 or y < 0 and x not an odd integer. Divide by 0. • For x: x < 0. For LOG or LN: x 0. • For TAN: x.90i, -.90i, 270i, -270i, 450i, etc. -1 -1 - For SIN or COS : x a > 1 Summary of the content on page 20 In case of difficulty The review instructions were correctly performed to be certain calculations. TI-30Xa (battery) If the display is blank, check for incorrectly installed batteries. Press s . and try again. TI-30Xa Solar If the display is blank, expose the solar panel to a suitable light. Press! and try again. 19 TI30XAUS. DOC MURFE Pruning Pat Hatcher Revised: 06/17/99 4:31 PM Printed: 06/17/99 4:32 PM Page 19 of 21 21

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