

TI Programmer

Hexadecimal and octal
calculator/converter for
computer programmers.



TEXAS INSTRUMENTS
INCORPORATED



TI Programmer: Efficient, time saving solutions for computer programming professionals and hobbyists.

Hexadecimal. Octal.
Decimal. Texas
Instruments new TI
Programmer lets you
perform fast, accurate
conversions and
calculations in any of these number bases . . .
portable power you can apply right to the job,
right where the job is.



Number base conversions.

Enter a number in base 8, 10 or 16. Then with a touch of a key, that number is quickly and accurately converted to either of the other number bases. Results appear instantly on the TI Programmer's bright, easy-to-read LED display. And a convenient mode indicator means you always know what number base you're operating in.

Number base calculations.

The TI Programmer quickly handles arithmetic computations, too — in all three bases. Immediate answers to binary computer problems . . . giving you more time for important programming or troubleshooting tasks.

Ideal for use with any size computer.

TI Programmer gives you 8-digit capacity in all bases . . . capability to handle even IBM 370 problems with ease. And since the TI Programmer uses integer "two's complement" arithmetic in hexadecimal and octal bases, it operates naturally, just like the computer does. Decimal base features signed floating point arithmetic for convenience in day-to-day math. $\boxed{1'sC}$ key provides "one's

complement" capability in HEX and OCT bases.

For additional flexibility in minicomputer and microcomputer work, the TI Programmer has the logical functions \boxed{AND} , \boxed{OR} , Exclusive OR \boxed{XOR} and Shift \boxed{SHF} . These functions operate bit by bit on numbers in HEX and OCT to give you the same capability provided by many computer instruction sets including the latest technology in mini/micro systems . . . and a unique tool for computer repair and digital logic design.

Versatile three key memory.

Three-key memory lets you store, recall or sum to memory contents. Parentheses provide the capability to specify the order of operation execution in a problem — with up to 4 pending operations. The TI Programmer even handles mixed number bases and combined logical and arithmetic operations; conversions and operations take place automatically in the order you specify. Constant mode allows constant operations with all arithmetic and logical operations.

TI Programmer can be a real time saver for you.

Texas Instruments new TI Programmer does away with conversion tables and tedious longhand methods. Complete with vinyl carrying case, fast charge battery pack and ac adapter/charger, the TI Programmer can multiply the effectiveness of anyone involved with computer programming, program debugging or troubleshooting.



The TI Programmer saves you time with problems like these...

What is $FE03_{16}$ in base 10?

Press

HEX

FE03

DEC

Display

" 0.

" FE03.

65027.



If a block of available memory begins at address 0416_8 and ends at 1100_8 how many bytes may be stored there?

Press

OCT

1100 **-**

416 **+** 1 **=**

DEC

Display

' 0.

'1100

' 463.

307.

What is the two's complement of $3FE_{16}$?

Press

HEX

3FE

+/-

Display

" 0

" 3FE.

" FFFF02.

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What is 7_8 shifted 2 bits to the left?

Press

OCT

7 **SHF** 2 **=**

Display

' 0.

' 34.

Bit by bit solution:

000 111 = 7

011 100 = 34

What is the result when you logical AND 5_8 and 6_8 ?

Press

OCT

5 **AND** 6 **=**

Display

' 0.

' 4.

Bit by bit solution:

101 5

110 6

100 4



"SAFB93DE."



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TI Programmer

DEC	HEX	OCT	OFF	C/ON
STO	RCL	SUM	()
SHF	d 1101	E 1110	F 1111	K
1'sC	A 1010	b 1011	C 1100	÷
OR	7 0111	8 1000	9 1001	X
AND	4 0100	5 0101	6 0110	-
XOR	1 0001	2 0010	3 0011	+
CE	0	.	+/-	=

Actual Size

Specifications

Display: Bright, 8-digit LED display. Decimal point, negative sign, and error indication.

Electronics: Texas Instruments manufactured MOS/LSI integrated circuit.

Power: Built-in rechargeable battery pack, ac adapter/charger. Operable while recharging. Adapter/charger input 115Vac, 60Hz. Traveling decimal display and automatic turn-off modes minimize power consumption. A special key sequence allows this power saving mode to be inhibited if desired.

Included: Detailed Owner's Manual, carrying case, ac adapter/charger.

Size: 5.8 x 3.2 x 1.4 inches (147 x 81 x 36mm).

Weight: 6.3 ounces (0.18kg).
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Limited Warranty

The TI Programmer is covered by a one-year limited warranty against defects in materials and workmanship.

Due to the difficulty in photographing calculator readouts, displays represented here are simulated.

Texas Instruments reserves the right to make changes in materials and specifications without notice.

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