Programmable TI 58

The advanced programmable calculator with...

plug-in
Solid State Software™
modules.

Up to 480 program steps.
Or, up to 60 memories.

TEXAS INSTRUMENTS
INCORPORATED

An exceptional value. For the professional or advanced student. With a preprogrammed library of math, statistics and finance.
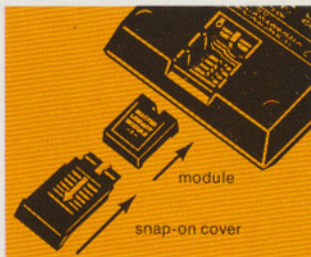
Texas Instruments new Programmable 58 is a revolutionary new advance in personal programmable calculators. Through recent TI milestone developments in solid state software, this calculator offers more power, more flexibility, more capability than anything else in its class — at a price you won't believe.

The Programmable 58 is truly computer-like. You have up to 480 program steps, or up to 60 memories to work with. And, when integrated with the Master Library module it delivers up to 5000 steps!

What's *Solid State Software*™ ?

Prewritten programs that once occupied almost two dozen magnetic cards have been encapsulated in a tiny plastic module small enough to sit on your thumbnail. This revolutionary

module

snap-on cover

Master Library module is a product of TI's micro-memory technology. It simply plugs into the calculator. Then any one of 25 different programs is available at the touch of a key. Programs that include math, statistics, finance—virtually a basic tool kit for today's professional. And it's also interchangeable with five other optional libraries.
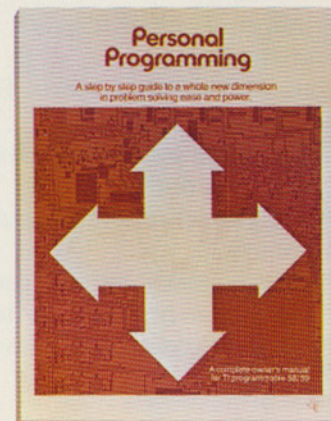
And it has AOS™ TI's unique algebraic operating system which lets you enter problems just as they're written . . . with up to nine levels of parentheses.

Personal Programming, **an exclusive, added-value book, starts you programming immediately. Even if you've never programmed before.** It unlocks the power of your calculator in language you can understand, allowing you to use your Programmable 58 with confidence—straight-off.
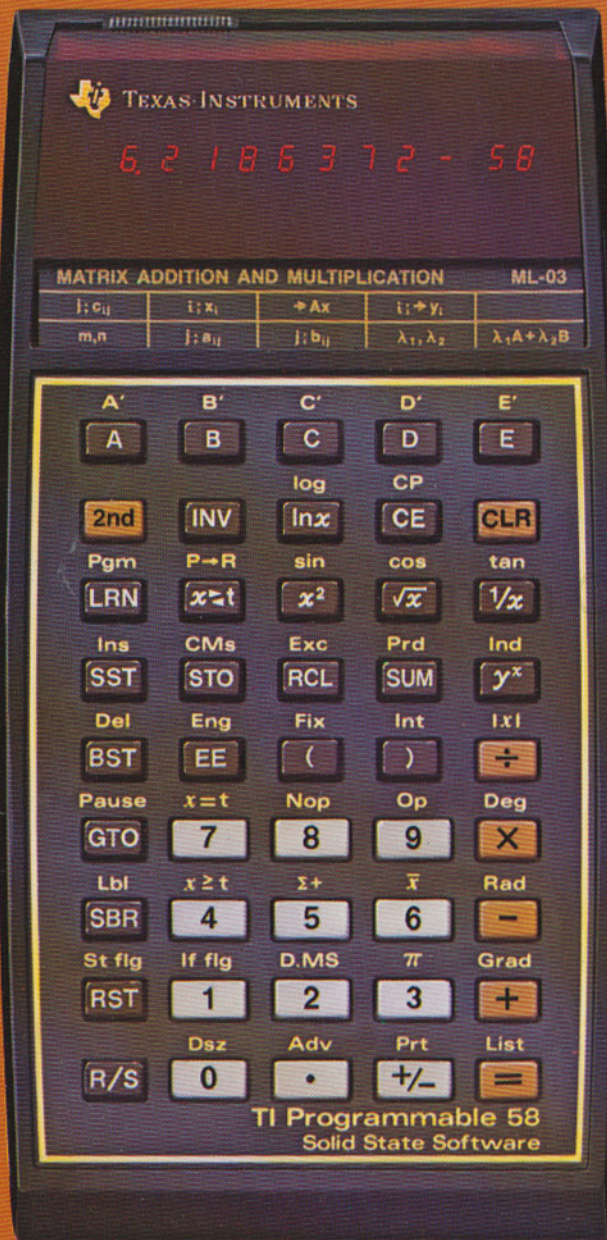
This convenient manual takes you through each function, each operation—step by step. It'll help you prove to yourself how easy and effective programming can be. You'll learn how to put the programs in the Master Library to work, how to develop your own custom programs, and how to explore the full calculating power of the Programmable 58 when programs aren't needed.

You'll find plenty of illustrated examples. And many will be highly adaptable to the work you do: Bond cost. Spherical coordinates. Investments. Quadratic equations. And much more. Finally, should you already know how to program, you can find the advanced programming details in one convenient section.

Personal Programming

A step by step guide to a whole new dimension in problem solving ease and power.

A complete owner's manual for TI programmable 58/59

The TI Programmable 58.
Up to 480 program steps.
Or, up to 60 memories.

Program steps and memory registers are resources that can be allocated to meet your needs. Short problems with many numbers could require nearly all 60 memories — like budgets or statistical analyses. While long problems with lots of operations and few variables could require almost all 480 program steps — like stock options or orbital mechanics. The TI-58 gives you the flexibility to select a broad variety of combinations.

PROGRAM STEPS		480
	400	10
	320	20
	240*	30*
	160	40
80	50	
60	MEMORIES	

*Calculator in this configuration when turned on.
May be changed from the keyboard or in a program.
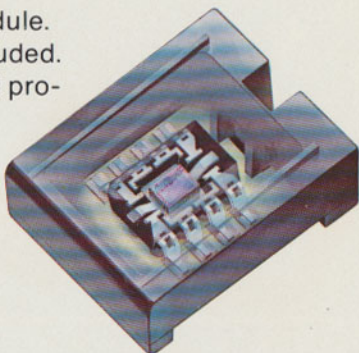
Features of the big TI Programmable 58.

- 4 types of display testing with an independent test to "t" register:
  $X \geq t \quad X < t \quad X = t \quad X \neq t$
- Up to 10 additional test registers directly available for: Looping. Increment. Decrement.
- Up to 10 user flags available: Set. Reset. Test.
- Up to 6 levels of subroutines available.
- 72 useful labels
- Extremely flexible addressing of:

Program Steps:	Data Memories:
1. Absolute	1. Direct
2. Indirect	2. Indirect
3. Label	

- 10 user defined label keys.
- Complete program editing: Insert. Delete. Single step. Backstep. No-Operation.
- AOS™ algebraic operating system allows easy, straightforward problem solving. Key in your problem left-to-right, just as you would read or write it in standard mathematical terms.
- Up to 9 sets of parentheses (allowing up to 8 pending operations in your machine) provide extended program solving capability.
- Over 170 functions and operations in scientific, engineering and statistical fields.

Actual Size

Plug-in *Solid State Software*™ Library. Puts pre-written programs at your fingertips.

Master Library Module. 25 programs — included. Gives students and professionals an instant "tool kit" in key areas:

- **Math**
  Matrix operation (2)
  Complex Functions (3)
  General Polynomial Evaluation
  Zeros of Functions
  Numerical Integration (2)
  Plane Geometry (3)

- **Statistics**
  Normal Distribution
  Random Numbers
  Combinations, Permutations, factorials
  Moving Averages

- **Finance**
  Compound Interest
  Annuities
  Days Between Dates

- **General Interest**
  Hi/Lo Game
  Checking Account Control
  Deg/Min/Sec Arithmetic Operations
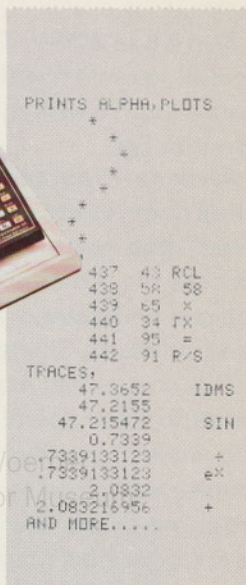 Conversions (2)
  Diagnostic

Optional library modules to be available.

Prewritten programs, plus easy-to-follow manuals. Use them from the keyboard or make them part of your program.

- **Applied Statistics**
- **Real Estate/Investment**
- **Aviation**
- **Marine Navigation**
- **Surveying**

The TI Programmable 58 also works with TI's PC-100A thermal printer.*


```
PRINTS ALPHA,PLOTS
        *
         *
          *
           *
          *
        *
      *
     *
     437   43 RCL
     438   58  58
     439   65  ×
     440   34  √X
     441   95  =
     442   91  R/S
TRACES,
    47.3652      IDMS
    47.2155
    47.215472    SIN
     0.7339
    .7339133123      +
    .7339133123      eX
     2.0832
    2.083216956      +
AND MORE.....
```

(½ Actual Size)

- Prints the results and tables you want (you define the format).
- Prints alphanumeric messages for prompting or headings.
- Prints audit trail symbols and numbers.
- Lists your entire program. Step numbers. Key codes. Key symbols.
- Lists the contents of all data memories.
- Lists labels and locations.
- Prints alphanumeric annotations in line with numbers.
- Plots data relationship. From keyboard, or directly from program control.
- Recharges calculator battery.

*Will not operate with PC-100 printer.

Specifications

Display: Bright 12-character LED display shows 10 digits plus sign in standard format. 8-digit mantissa, 2-digit exponent and 2 signs in scientific notation. Decimal point. negative sign. Error indication. Also displays in engineering notation. Plus, fixed or floating decimal point.

Electronics: Texas Instruments manufactured MOS/LSI integrated circuits and other solid state components.

Power Source: Rechargeable battery pack. Recharges fully in 4 hours with calculator off to provide approximately 3 hours of portable operation with normal use. Operable while recharging. AC adapter/charger input 115V/60 Hz.

Included: *Solid State Software*™ Master Library Module. Personal Programming owner's manual. Quick reference calculator operating guide. Master program library manual. Solid-state software accessories kit containing: Program label cards. Quick reference guide. Library cards carry case. AC adapter. Charger. Vinyl carry case.

Size: 6.43 x 3.24 x 1.44 inches (16.33 x 8.23 x 3.66 mm)

Weight: 8.48 ounces (240.3 grams)

Limited Warranty

The TI Programmable 58 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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