	Key Depressed	Display
12 **Memory Operation**		
Tota the following groups:		
6 × 1.54) − (18 × .75) −		
14 × 1.39) − (6 × .89) − sales tax of 6%		
Clear calculator	C C	0.
Clear memory	CM	0.
Enter first number	6	6
Press ×	×	6.
Enter second number	1.54	1.54
Press − =	+=	9.24
Add to memory	M+	9.24
Enter third number	18	18
Press ×	×	18.
Enter fourth number	.75	0.75
Press − =	+=	13.5
Add to memory	M+	13.5
Enter fifth number	14	14
Press ×	×	14.
Enter sixth number	1.39	1.39
Press − =	+=	19.46
Add to memory	M+	19.46
Enter seventh number	6	6
Press ×	×	6.
Enter eighth number	.89	0.89
Press − =	+=	5.34
Subtract from memory	M−	5.34
Recall the result	RM	36.86
Press ×	×	36.86
Enter sales tax number	6	6
Press %	%	2.2116
Press + =	+=	39.0716

LIMITED 90 DAY WARRANTY

Litronix, Inc. warrants your Avatar calculator to be free from defects or malfunctions attributable to workmanship or materials for 90 days from the date of retail purchase by the original owner. In the event of any such defect or malfunction, Litronix, without charge for parts or labor, will promptly repair your calculator or replace it with a new one. However, Litronix shall be relieved of its warranty obligations with respect to any such defect or malfunction caused by damage (not resulting from such defect or malfunction) while in your possession or by unreasonable use (including failure to provide reasonable and necessary maintenance). **ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, SHALL EXPIRE ON EXPIRATION OF THE EXPRESS WARRANTY STATED ABOVE. CONSEQUENTIAL DAMAGES FOR BREACH OF WARRANTY ARE EXCLUDED.** No action for breach of warranty may be commenced more than one year after the cause of action has accrued. Before making any claim or commencing any action based on a dispute under this warranty, owner must inform Litronix of such intention and request information concerning informal dispute procedures established by Litronix.

BEFORE RETURNING YOUR AVATAR CALCULATOR FOR WARRANTY REPAIR, PLEASE CHECK THE BATTERIES. If, after checking the batteries, your Avatar calculator still requires repair covered by this warranty, send it to Litronix, Inc., P.O. Box 6000, Cupertino, California 95014, Attention: Quality Assurance Department.

Litronix issues this warranty in good faith and with full confidence in the workmanship and quality of Litronix products.

a guide to
machine calculation

AVATAR
by litronix

1502 MEMORY

SOLID STATE DESIGN
EIGHT DIGIT DISPLAY

8. Multiplication

Multiply 5 by 2 by 3½

	Key Depressed	Display
Clear calculator	C C	0.
Enter first number	5	5
Press ×	×	5.
Enter second number	2	2
Press ×	×	10.
Enter third number	3.5	3.5
Press +=	+=	35.

9. Division

Divide 5 by 8

	Key Depressed	Display
Clear calculator	C C	0.
Enter number to be divided	5	5
Press ÷	÷	5.
Enter number to divide by	8	8
Press +=	+=	0.625

10. Calculating Percent

a. x is what % of y?

b. What is x % of y?

c. Compute x % of y and then add or subtract that number to y.

a. 3 is what % of 4?

	Key Depressed	Display
Clear calculator	C C	0.
Enter first number	3	3
Press ÷	÷	3.
Enter second number	4	4
Press %	%	75.

3 is 75% of 4

b. What is 11.1% of 43?

	Key Depressed	Display
Clear calculator	C C	0.
Enter first number	43	43
Press ×	×	43.
Enter second number	11.1	11.1
Press %	%	4.773

4.773 is 11.1% of 43

c. What is the new value of a $14.00 item if it is marked up 8%

	Key Depressed	Display
Clear calculator	C C	0.
Enter first number	14	14
Press ×	×	14.
Enter second number	8	8
Press %	%	1.12
Press +=	+=	15.12

The marked up price is 15.12. Discounts can be computed in the same manner using the −= key instead of the += key.

11. Chain Operation

Compute the value of $[(16 + 7) \times 4.5 - 13] \div 7$

	Key Depressed	Display
Clear calculator	C C	0.
Enter first number	16	16
Press +=	+=	16.
Enter second number	7	7
Press +=	+=	23.
Press ×	×	23.
Enter third number	4.5	4.5
Press +=	+=	103.5
Enter fourth number	13	13
Press −=	−=	90.5
Press ÷	÷	90.5
Enter fifth number	7	7
Press +=	+=	12.928571

BATTERY HINTS

To Install Battery Remove the battery compartment cover, which is located on the bottom of the calculator, by inserting your thumb in the slots at the bottom of the cover. Insert 9 volt battery matching positive terminal (+) to positive post on battery and negative terminal (−) to negative post on battery. Replace the battery compartment cover.

Battery Life This calculator is designed to operate on one 9 volt battery, which will provide up to 6 hours of continuous use. When the display becomes erratic, dim or refuses to turn on, the batteries should be replaced.

Optional A.C. Adapter Operation An optional A.C. Adapter/Battery Eliminator (Model #112 for 110 volt operation and Model #113 for 230 volt operation) is available that will allow this unit to be used with normal A.C. Power. When the adapter is used, the internal battery is automatically disconnected to conserve battery life.

OPERATING EXAMPLES

	Key Depressed	Display
1. Entering Number		
Enter 25		
Clear calculator	C C	0.
Press 2	2	2
Press 5	5	25
2. Entering Numbers with Decimal Point		
Enter 3.141		
Clear calculator	C C	0.
Press 3	3	3
Press .	.	3.
Press 1	1	3.1
Press 4	4	3.14
Press 1	1	3.141
3. To Enter a Negative Number		
Enter − 1.2		
Clear calculator	C C	0.
Press 1	1	1
Press .	.	1.
Press 2	2	1.2
Press − =	−=	−1.2
4. Clearing Entries		
Clear calculator	C C	0.
Enter 465	465	465
Press ×	×	465.
Enter 4	4	4
Press C	C	0
Enter 6	6	6
Press C	C	0
Enter 5	5	5
Press − =	+=	2325.

	Key Depressed	Display
5. 'Overflow'		
Clear calculator	C C	0.
Enter 888888.8	888888.8	888888.8
Press ×	×	888888.8
Enter 999.9	999.9	999.9
Press + =	+=	8 ⧈ 8879991

The 'box' around the decimal point indicates the 'overflow' condition. The machine will not allow further entry until C is pressed once. Correct answer is then 8.8879991×10^6.

6. Addition		
Add $10.10, $6.06, $5.72		
Clear calculator	C C	0.
Enter first number	10.10	10.10
Press + =	+=	10.10
Enter second number	6.06	6.06
Press + =	+=	16.16
Enter third number	5.72	5.72
Press + =	+=	21.88
7. Subtraction		
Subtract 4.2 and 6 from 3		
Clear calculator	C C	0.
Enter number to be subtracted from	3	3
Press − =	+=	3.
Enter first number to subtract	4.2	4.2
Press − =	−=	−1.2
Enter second number to subtract	6	6
Press − =	−=	−7.2

FEATURES

Eight Digit Display Solid-state light emitting diode display produces bright, long lasting presentation of numerical entries.

Full Accumulating Memory Accumulates and recalls subtotals of prior calculations. Any displayed number may be added to or subtracted from data saved in the memory. Memory light indicates when memory is in use.

Percent Key Provides for percentage, add-on, discount, markup and yield calculations.

Arithmetic Logic Allows entry sequence to follow adding machine mode. This is the mathematical method of problem solving.

Full Floating Decimal Calculator automatically positions decimal point to maintain full 8 digit accuracy.

Overflow Save In case of overflow, in display, a single press of C clears the overflow condition and allows calculator to continue using the overflowed results divided by 10^8.

Battery Saving Display After several minutes, all of the display goes blank, except for the decimal point, to save the battery. Pressing any key restores the display.

Automatic Power Off If power is not turned off after approximately 45 minutes of non use, the calculator will automatically be turned off.

Throw Away Battery This calculator uses one 9 volt battery for up to 6 hours of continuous operation.

Optional A.C. Adapter This unit is available for use as an option. The internal batteries are automatically disconnected to conserve battery life when the A.C. Adapter is in use.

OPERATING INSTRUCTIONS

KEYS

ON One press turns calculator on.

OFF Turns calculator off. Once off, all data is erased from calculator, including that which was saved in memory.

C If last entry was a number, one press clears the last entry. If display indicates overflow, one press clears the overflow condition. Two presses will clear calculator.

0-**9** Number entry keys.

· Enters decimal point.

+= Directs calculator to add display to previous number when used in addition operation. When used in multiplication operation, directs calculator to multiply display by previous number.

−= Directs calculator to subtract display from previous number.

× Directs calculator to multiply display by following number. To multiply a negative number, press **−=** then **×** to enter the negative number.

÷ Directs calculator to divide display by following number. To divide a negative number, press **−=** then **÷** to enter the negative number.

% Used in conjunction with **×**, the **%** is used to find the percentage of a given number. Used in conjunction with **×** **+=**, the **%** of a base number is added to that base in the display. Used in conjunction with **×** **−=** the **%** of a base number is discounted from that base in the display. When used in conjunction with **÷**, the **%** key can be used for yield calculations.

M+ Adds the display to data saved in memory. Repetitive addition of the display to data saved in memory can be done by pressing this key the specified number of times.

M− Subtracts the display from data saved in memory. Repetitive subtractions of the display from data saved in memory can be done by pressing this key the specified number of times.

RM Recalls data saved in memory to the display.

CM Clears data saved in memory.

DISPLAY

Memory Indicator A memory indicator light appears in the display window when non-zero data is saved in memory.

Error Indicator When a zero or improper mathematical sequence is attempted, a small square around the decimal point will appear in the far right side of the display. A single press of **C** restores display.

Minus Sign Appears immediately to the left of the number in the display to indicate a negative number.

Decimal Point Calculator automatically positions decimal point to maintain full eight digit accuracy.

Overflow Indication A square around the decimal point will appear in display when calculation has gone beyond capacity and refuse to permit further entries until **C** key has been pressed.

Battery Saving Display After approx 5 minutes, display blanks except decimal point when it is in result. Pressing any key restores display.