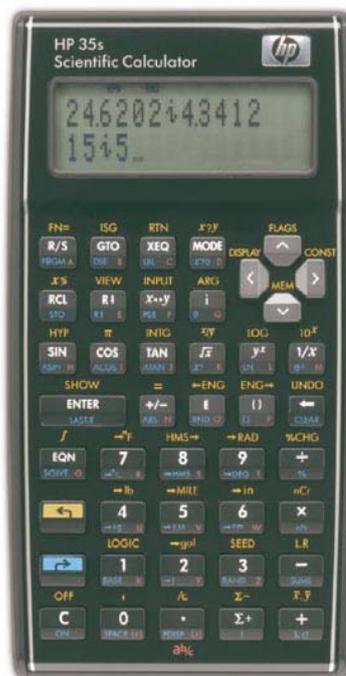


# ***QUICKCLOSE***

*HP35S Surveying Programs*

*Version 1.2 upgrade  
(from 1.1)*



## **USER REFERENCE GUIDE**

© *Richard Stanaway*  
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**Only one calculator is permitted to be loaded with each licence.** Multiple installation from one licence is not permitted.

## 1 Version 1.1 to Version 1.2 Upgrade

A bug has been identified in the area computation routine. The bug is only apparent when the area of an unclosed figure is computed using non-zero starting coordinates. The bug does not affect closed figures. The following program steps can be implemented in an existing installation of the program to remove the bug and convert the program from version 1.1 to 1.2.

### To convert Program A from Version 1.1 to version 1.2 (Display Misclose, Area and Ratio)

[GTO] [R/S] [ENTER] [↵] to edit Program A

Press the down cursor key [v] until *A005 STO Q* is displayed, then type in the following program steps:

[RCL] [+/-]	A006	RCL N
[RCL] [x] [4]	A007	RCLx U
[RCL] [R↓]	A008	RCL E
[RCL] [x] [5]	A009	RCLx V
[-]	A010	-
[2]	A011	2
[÷]	A012	÷
[+]	A013	+

Press [C] to exit program entry

To review the program, press [GTO] [R/S] [ENTER] [↵]

Press the [v] key (down arrow cursor key) to scroll through the program entry matching the display with the program steps listed below.

To edit any line, press the [←] key and re-enter the line.

### **IMPORTANT NOTE**

After editing the program it is essential that the program be tested with the following test data below to ensure that exactly the same results are obtained.

The correctly entered version 1.2 Program A is listed as follows:

[↑] [XEQ] [R/S]	A001	LBL A
[XEQ] [1/x][0][0][1]	A002	XEQ M001
[↑] [<] [1] [2]	A003	FIX 2
[RCL] [R/S]	A004	RCL A
[↑] [RCL] [EQN]	A005	STO Q
[RCL] [+/-]	A006	RCL N
[RCL] [x] [4]	A007	RCLx U
[RCL] [R↓]	A008	RCL E
[RCL] [x] [5]	A009	RCLx V
[-]	A010	-
[2]	A011	2
[÷]	A012	÷
[+]	A013	+
[↑] [+/-]	A014	ABS
[RCL] [+] [i]	A015	RCL+G
[↑] [RCL] [R/S]	A016	STO A
[↑] [R↓] [R/S]	A017	VIEW A
[RCL] [EQN]	A018	RCL Q
[↑] [RCL] [R/S]	A019	STO A
[RCL] [y <sup>x</sup> ]	A020	RCL L
[RCL] [÷] [MODE]	A021	RCL÷ D
[↑] [RCL] [7]	A022	STO R
[↑] [<] [1] [0]	A023	FIX 0
[↑] [R↓] [7]	A024	VIEW R
[↑] [<] [1] [3]	A025	FIX 3
[↑] [XEQ]	A026	RTN

## Test Data

### Classic close data entry (no coordinates) Program C ([XEQ] [XEQ])

Line 1	90°	100
Line 2	180°	100
Line 3	314°59'	141.38

XEQ A Misclose = 359°50' 09" 0.058 Area = 5002.91 Ratio = 1: 5853

### Coordinate traverse data entry Program T ([XEQ] [9])

Starting Coordinates	E 3000	N 5000		
Line 1	90°	100	(E 3100.000	N 5000.000)
Line 2	180°	100	(E 3100.000	N 4900.000)
Line 3	314°59'	141.38	(E 3000.000	N 4999.942)

XEQ A Misclose = 359°50' 09" 0.058 Area = 5002.91 Ratio = 1: 5853