

P.FN1	Programming functions 1					
g-shift	PIXEL	POINT	AGRAPH	ZOOM	PLTRST	PLTFCNS
f-shift	MSG	ERR	REM	KEY?	KTYP	PUTK
unshifted	INPUT	AVIEW	PROMPT	PAUSE	TICKS	P.FN2
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Prev menu https://47calc.com/doc/C47/Menus/C47_Menu_P-FN_page_1.pdf

Next menu https://47calc.com/doc/C47/Menus/C47_Menu_P-FN2_page_1.pdf

Level	Label	Type	FullName	Extended description	Category	Flag	Catalog	Default
Menu p1	P.FN1	MENU	Programming functions 1	Programming functions 1 ; this is a normal menu, buttons are not user assignable (P.FN is)	Programming		P.FN1	
F1	INPUT	Command (PEM)	Input	Halt program execution, push current value, prompt and accept input for register or variable ; TAM : INPUT __ Tam menu	Programming		INPUT	
F2	AVIEW	Command (PEM)	Alpha view	View the register or variable contents (text string) in the top left part of the screen, without TI (for use in Program Entry Mode) ; if the contents include the ↵ symbol, optionally display one or more TI's at the top, X, Y, Z line ; example: "top line = ↵ X = ↵ Y = ↵ Z = " ; TAM : AVIEW __ Tam menu ; Info : if ⏏ACT is SET, AVIEW will print when executed from the keyboard in MAN, NORM or TRACE ; in Program Entry Mode, ⏏EN must be SET as well ; if ⏏ACT is CLEAR and ⏏EN is SET, AVIEW halts execution (R/S)	Programming		AVIEW	
F3	PROMPT	Command (PEM)	Prompt	Halt program execution and view the register or variable contents (text string) in the top left part of the screen, without TI (for use in Program Entry Mode) ; if the contents include the ↵ symbol, optionally display one or more TI's at the top, X, Y, Z line ; example: "top line = ↵ X = ↵ Y = ↵ Z = " ; TAM : PROMPT __ Tam menu ; Info : if ⏏EN is SET, PROMPT will print when executed from the keyboard in NORM or TRACE ; in Program Entry Mode, ⏏EN must be SET as well	Programming		PROMPT	
F4	PAUSE	Command (PEM)	Pause	Pause program for number of ticks ; range is nn in [0, 98], one tick is 100 ms ; special case : nn = 99 results in sleep mode ; TAM : PAUSE __ TamNonReg menu	Programming		PAUSE	
F5	TICKS	Command (PEM)	Ticks	Number of ticks counted since calculator was turned on (one tick is 100 ms)	Programming		TICKS	
F6	P.FN2	MENU	Programming functions 2	Programming functions 2 ; this is a normal menu, buttons are not user assignable (P.FN is)	Programming		P.FN2	
fF1	MSG	Command (PEM)	Message	Show error message ; TAM : MSG __ TamNonReg menu ; Ref : https://47calc.com/doc/C47/Reference/C47_Errors_and_messages.pdf	Programming		MSG	
fF2	ERR	Command (PEM)	Error	Raise error and show error message ; TAM : ERR __ TamNonReg menu ; Ref : https://47calc.com/doc/C47/Reference/C47_Errors_and_messages.pdf	Programming		ERR	
fF3	REM	Command (PEM)	Remark	Comment line in program (maximum 160 characters) ; Info : REM ' ' ALPHA (ALPHA) menu	Programming		REM	
fF4	KEY?	Command (logical, PEM)	Key pressed?	Test key was pressed : if it is NOT pressed, the next program step will be executed and if it IS pressed, the next program step will be skipped and the keycode is stored in the register specified ; keycode range is 11-85, where the first digit is row, second digit is column number ; TAM : KEY? __ Tam menu ; Info : KEY? should not to be used in short loops, keeps calculator running on full power ; [R/S] and [EXIT] interrupt a program and KEY? will not work for those keys ; Ref : https://47calc.com/doc/C47/Reference/C47_KeyType.pdf	Programming		KEY?	
fF5	KTYP	Command (logical)	Key type?	Get key type for key code returned by KEY? ; TAM : KTYP __ Tam menu ; Info : https://47calc.com/doc/C47/Reference/C47_KeyType.pdf	Programming		KTYP	
fF6	PUTK	Command (PEM)	Put keycode in buffer	Copy keycode from register to keyboard buffer for immediate execution ; TAM : PUTK __ Tam menu	Programming		PUTK	
gF1	PIXEL	Command (PEM)	Display pixel or thin line	Display one pixel at (X, Y) or draw a thin horizontal or vertical line at the (absolute) value of one or both negative coordinates ; this is a Program Entry Mode command ; use CLLCD to clear LCD and PAUSE to pause program for number of ticks in order to view graphic ; Info : Range is X in [0, 399] and Y in [0, 239] (400 x 240 display, where (0, 0) is bottom left) ; -0. is accepted as a valid negative input for line drawing	Programming		PIXEL	
gF2	POINT	Command (PEM)	Display point or thick line	Display 9 (3x3) pixels around (X, Y) or draw a thick horizontal or vertical line at the (absolute) value of one or both negative coordinates ; this is a Program Entry Mode command ; use CLLCD to clear LCD and PAUSE to pause program for number of ticks in order to view graphic ; Info : Range is X in [0, 399] and Y in [0, 239] (400 x 240 display, where (0, 0) is bottom left) ; -0. is accepted as a valid negative input for line drawing	Programming		POINT	
gF3	AGRAPH	Command (PEM)	Alpha graphics	Show a 64 column pattern according to variable GRAMOD (OR: 0 ; SET: 1 ; OFF: 2 ; XOR: 3) ; this command will be redesigned and should not be used in programming! ; TAM : AGRAPH __ Tam menu	Programming		AGRAPH	

Level	Label	Type	FullName	Extended description	Category	Flag	Catalog	Default
gF4	ZOOM	Command (PEM)	Zoom (plot)	Zoom plot to factor in X ; Info : -3..-1 : zoom out ; 0 : normal	Programming		ZOOM	
gF5	PLTRST	Command (PEM)	Reset plot	Reset all plot options and redraw graph ; Info : Resets options for lines, boxes, crosses, plusses and scaling ; PLTRST also resets ↓Y and ↑Y to zero	Plotting		PLTRST	
gF6	PLTFCNS	MENU (item)	Plot functions	Plot functions (programmable), displaying graph, value/tick, lower left and upper right coordinate and additional info according to settings ; displays plot options menu ; Info : Please note that this item is in development -- Error 59 : Undefined menu name -- may be raised ; when SDIGS is set to the maximum value of 34, plotting uses 15 instead, otherwise it uses the value set by SDIGS	Plotting		PLTFCNS	

p1	P.FN1	Link
F1	INPUT	
F2	AVIEW	
F3	PROMPT	
F4	PAUSE	
F5	TICKS	
F6	P.FN2	https://47calc.com/doc/C47/Menus/C47_Menu_P-FN2_page_1.pdf
fF1	MSG	
fF2	ERR	
fF3	REM	
fF4	KEY?	
fF5	KTYP	
fF6	PUTK	
gF1	PIXEL	
gF2	POINT	
gF3	AGRAPH	
gF4	ZOOM	
gF5	PLTRST	
gF6	PLTFCNS	https://47calc.com/doc/C47/Menus/C47_Menu_PLTFCNS_page_1.pdf