

R47v0 Ref page : Configuration

Internal reference	Variable	Label	Type	Default	Description
<i>shortIntegerMode</i>	ISM	SIGNMT	Setting (pgm)	OFF	Set sign and mantissa mode for Short integer (ISM = -1)
	ISM	UNSIGN	Setting (pgm)	OFF	Set unsigned mode for Short integer (ISM = 0)
	ISM	1COMPL	Setting (pgm)	OFF	Set 1's complement mode for Long integer (ISM = 1)
	ISM	2COMPL	Setting (pgm)	ON	Set 2's complement mode for Long integer (ISM = 2)
<i>shortIntegerWordSize</i>		WSIZE	Setting (pgm)	64	Set word size in bits, for Short integer (8.02-8.16)
<i>displayFormat</i>	DF	FIX	Setting (pgm)	OFF	Set numeric display mode to fixed notation with nn decimals (NDEC = nn = 0-19 ; DF = 1)
	DF	SCI	Setting (pgm)	OFF	Set numeric display mode to scientific notation with nn decimals = nn+1 digits (NDEC = nn = 0-19 ; DF = 2)
	DF	ENG	Setting (pgm)	OFF	Set numeric display mode to engineering notation with nn+1 digits (NDEC = nn = 0-19 ; DF = 3)
	DF	UNIT	Setting (pgm)	OFF	Set numeric display mode to unit (prefix) notation with nn+1 digits (NDEC = nn = 0-19 ; DF = 5) ; showing all or limited set of SI-prefixes depending on flag PFX.All ; if flag 1024 ⁿ is SET, binary prefixes are shown if available and long integer values are indicated by Z: ; prefixes can be selected directly from menu Prefix
	DF	SIG	Setting (pgm)	OFF	Set numeric display mode to significant digits notation with nn+1 digits (NDEC = nn = 0-19 ; DF = 4) ; switching over to scientific or engineering notation when number of rounded trailing zeros exceeds group size (IPGRP)
	DF	ALL	Setting (pgm)	3	Set numeric display mode to ALL digits notation ; display all digits as far as possible with maximum nn decimal zeros (NDEC = nn = 0-19 ; DF = 0)
<i>displayFormatDigits</i>	NDEC	DSP	Setting (pgm)	3	Set display mode precision (only) ; applies to FIX, SCI, ENG, UNIT, SIG, ALL
<i>gapItemLeft</i>		PER.	Setting (pgm)	OFF	Set integer part separator to period
		COM,	Setting (pgm)	OFF	Set integer part separator to comma
		DOT.	Setting (pgm)	OFF	Set integer part separator to dot
		WPER.	Setting (pgm)	OFF	Set integer part separator to wide period
		WCOM,	Setting (pgm)	OFF	Set integer part separator to wide comma
		WDOT •	Setting (pgm)	OFF	Set integer part separator to wide dot
		TICK'	Setting (pgm)	OFF	Set integer part separator to narrow tick
		SPC.	Setting (pgm)	ON	Set integer part separator to space
		NONE	Setting (pgm)	OFF	Set integer part separator to <none>
		WTICK'	Setting (pgm)	OFF	Set integer part separator to tick
		WSPC.	Setting (pgm)	OFF	Set integer part separator to double space
		UNDR_	Setting (pgm)	OFF	Set integer part separator to underscore
<i>gapItemRight</i>		NSPC.	Setting (pgm)	OFF	Set integer part separator to narrow space
		PER.	Setting (pgm)	OFF	Set fractional part separator to period
		COM,	Setting (pgm)	OFF	Set fractional part separator to comma
		DOT.	Setting (pgm)	OFF	Set fractional part separator to dot
		WPER.	Setting (pgm)	OFF	Set fractional part separator to wide period
		WCOM,	Setting (pgm)	OFF	Set fractional part separator to wide comma
		WDOT •	Setting (pgm)	OFF	Set fractional part separator to wide dot
		TICK'	Setting (pgm)	OFF	Set fractional part separator to narrow tick
		SPC.	Setting (pgm)	ON	Set fractional part separator to space
		NONE	Setting (pgm)	OFF	Set fractional part separator to <none>
		WTICK'	Setting (pgm)	OFF	Set fractional part separator to tick
		WSPC.	Setting (pgm)	OFF	Set fractional part separator to double space
		UNDR_	Setting (pgm)	OFF	Set fractional part separator to underscore
		NSPC.	Setting (pgm)	OFF	Set fractional part separator to narrow space

Internal reference	Variable	Label	Type	Default	Description
<i>gapItemRadix</i>		PER.	Setting (pgm)	ON	Radix decimal period
		COM,	Setting (pgm)	OFF	Radix decimal comma
		DOT.	Setting (pgm)	OFF	Radix decimal dot
		WPER.	Setting (pgm)	OFF	Radix decimal wide period
		WCOM,	Setting (pgm)	OFF	Radix decimal wide comma
		WDOT.	Setting (pgm)	OFF	Radix decimal wide dot
<i>grpGroupingLeft</i>		IPGRP	Setting (pgm)	3	Set integer part group size (2-9 digits) ; not for SCI or ENG notation
<i>grpGroupingGr1LeftOverflow</i>		IPGRP1x	Setting (pgm)	0	Allow the first group to the left of the radix to contain one more digit (up to 1-9) than the number of digits specified by IPGRP1 ; a value of 0 means this setting is ignored (IPGRP1 is followed)
<i>grpGroupingGr1Left</i>		IPGRP1	Setting (pgm)	0	Set number of digits of the first group to the left of the radix to be different from IPGRP ; a value of 0 means this setting is ignored (IPGRP is followed)
<i>grpGroupingRight</i>		FPGRP	Setting (pgm)	3	Set fractional part group size (2-9 digits)
<i>currentAngularMode</i>	ADM	DEG	Setting (pgm)	ON	Set Angular Display Mode to degrees mode (ADM = 0)
	ADM	D.MS	Setting (pgm)	OFF	Set Angular Display Mode to sexagesimal degrees mode (ADM = 1)
	ADM	RAD	Setting (pgm)	OFF	Set Angular Display Mode to radians mode (ADM = 2)
	ADM	MUL π	Setting (pgm)	OFF	Set Angular Display Mode to multiple of pi radians mode (ADM = 3)
	ADM	GRAD	Setting (pgm)	OFF	Set Angular Display Mode to gradians mode (ADM = 4)
<i>lrSelection</i>		BestF	Setting (pgm)	1	Select curve fit model(s) by setting parameter value directly
<i>lrChosen</i>		<none>	<none>	<none>	Not a user item, this remembers where the "*" indicating which of the LR methods succeeded ; <none>
<i>denMax</i>	DMX	DMX	Setting (pgm)	64	Set max denominator for fractions [TAM variant] ; maximum value of 32500 is set by button DMXmax on [TamNonRegMax.1] F2, stored as 0 and displayed as DMX _{max}
<i>displayStack</i>		dSTACK	Setting (pgm)	4	Set the number of stack registers to be displayed
<i>firstGregorianDay</i>		J/G	Function (monadic)	1752-09-14	Set the day that Julian date changes over to Gregorian date (using date in X)
<i>roundingMode</i>		RMODE	Setting (pgm)	0	Set floating point rounding mode ; used for RSD and RDP ; also used when converting from the extended precision internal format to packed reals ; 0 : $\frac{1}{2}E$ = round half even ; 1 : $\frac{1}{2}\uparrow$ = round half up ; 2 : $\frac{1}{2}\downarrow$ = round half down ; 3 : $\leftarrow 0$ = round away from zero ; 4 : $\rightarrow 0$ = round towards zero ; 5 : $\lceil x \rceil$ = ceiling ; 6 : $\lfloor x \rfloor$ = floor
<i>systemFlags0</i>		<none>	<none>	<none>	Not a user item, this variable stored represents the first 64 SFL flags ; <none>
<i>systemFlags1</i>		<none>	<none>	<none>	Not a user item, this variable stored represents the second 64 SFL flag ; <none>
<i>kbd_usr</i>		<none>	<none>	<none>	Not a user item, this variable stores all 37 USER keys - If not configured, they are a copy of the standard non-user keys ; <none>
<i>fgLN</i>		fg.OFF	Setting (pgm)	OFF	Do not show horizontal f- and g-lines indicating the state of the f-shift or g-shift in menus
		fg.LIM	Setting (pgm)	OFF	Switch on menu f,g-highlighting limited
		fg.FUL	Setting (pgm)	ON	Switch on menu f,g-highlighting full
<i>HOME3</i>		HOME _f ^g	Setting	ON	Switch on HOME menu activated by triple and longerpress f/g-shift ; not programmable - in PEM, use flag HOME _f ^g
<i>ShiftTimeoutMode</i>		SH.4s	Setting	OFF	Switch on shift time-out of 4s ; not programmable - in PEM, use flag SH.4s
<i>BASE_HOME</i>		HOME _b	Setting	OFF	Switch on HOME menu shown ; not programmable - in PEM, use flag HOME _b
<i>Input_Default</i>		i LI/R	Setting (pgm)	ON	New numeric input is put on the stack as Long integer (0) or Real number (1.0-1.5)
		i R	Setting (pgm)	OFF	New numeric input is put on the stack as Real number (1.0-1.5)
		i C	Setting (pgm)	OFF	New numeric input is put on the stack as Complex number (2.0-2.5)
		i LI	Setting (pgm)	OFF	New numeric input is put on the stack as Long integer (0) and entry of the decimal radix is ignored
<i>dispBase</i>		dBASE	Setting (pgm)	0	Display long integer in X as base number in the T-line (base 2-62) ; exit by entering dBASE 0
<i>BASE_MYM</i>		MyMb	Setting	ON	Switch on MyMenu shown ; not programmable - in PEM, use flag MyMb
<i>jm_G_DOUBLETAP</i>		g.2Tp	Setting	ON	Switch on double tap function keys for g-shift ; not programmable - in PEM, use flag g.2Tp

Internal reference	Variable	Label	Type	Default	Description
<i>Norm_Key_00.func</i>		□ KEY	MENU		Not a user item, these 3 variables store the NRM00 key ; Special hotkey assignments to key <none> in NORMAL mode
<i>Norm_Key_00.funcParam</i>		□ KEY	MENU		Not a user item, these 3 variables store the NRM00 key ; Special hotkey assignments to key <none> in NORMAL mode
<i>Norm_Key_00.used</i>		□ KEY	MENU		Not a user item, these 3 variables store the NRM00 key ; Special hotkey assignments to key <none> in NORMAL mode
<i>fractionDigits</i>		FDIGS	Setting (pgm)	34	Set the number of significant digits (1-34) used by the approximations of the fraction modes ; SBI ≈ indicates fractions can be approximated to be close enough (displayed if FDIGS < 34)
<i>IrFractionsCurrentStatus</i>		IRFR	Flag (system)	CLEAR	SET for irrational fractions mode preferred; CLEAR for irrational fractions mode not preferred
<i>displayStackSHOIDISP</i>		dSI	Setting (pgm)	2	Set the short integer split screen lines for the display of X in #BASE Mode
<i>bcdDisplaySign</i>		BCDUNS	Setting (pgm)	ON	Set BCD unsigned display of Long integer in #BASE Mode
<i>DRG_Cycling</i>		DRG	Function (monadic, cyclic, r		Not a user item, stores the current DRG selection ; Add ADM tag to untagged value in X, convert tagged value to degrees-radians-gradians (cyclic)
<i>DM_Cycling</i>		FSE	Setting (cyclic)	ALL	Not a user item, stores the current Display Mode selection ; Display mode cycling (FIX ; SCI ; ENG ; UNIT ; SIG ; ALL)
<i>LongPressM</i>		M.1234	Setting (pgm)	ON	Longpress control : Math keys do full cycle
		M.124	Setting (pgm)	OFF	Longpress control : Math keys skip g-shift
		M.14	Setting (pgm)	OFF	Longpress control : Math keys skip f- and g-shift
<i>LongPressF</i>		F.1234	Setting (pgm)	OFF	Longpress control : Function keys do full cycle
		F.124	Setting (pgm)	ON	Longpress control : Function keys skip g-shift
		F.14	Setting (pgm)	OFF	Longpress control : Function keys skip f- and g-shift
<i>lastDenominator</i>		<none>	<none>	<none>	Not a user item, this is the memory of the last denominator used in the .. notation of entering fractions ; <none>
<i>significantDigits</i>		SDIGS	Setting (pgm)	34	Set the number of significant digits (1-34) for rounding after each operation ; sets tolerance of solvers, plotting and CONVG? ; value of 0 sets maximum precision (34)
<i>pcg32_global</i>		<none>	<none>	<none>	Not a user item, this is the seed for the random number generator ; <none>
<i>exponentLimit</i>		RNG	Setting (pgm)	6145	Set number range as 10^{nn} , where nn in [99, 6145]
<i>exponentHideLimit</i>		HIDE	Setting (pgm)	0	Set parameter to hide small Real numbers or parts ; display ≈0. for numbers with absolute values < 10^{-n} , where n in [12, 99] ; useful e.g. in matrices ; reset by HIDE 0 ; when menu XFCNS is open, setting HIDE is ignored
<i>lastIntegerBase</i>		<none>	<none>	<none>	Not a user item, this is the memory of the last base used for SI entry ; <none>
<i>MYM3</i>		MyMf ^g	Setting	OFF	Switch on MyMenu activated by triple and longerpress f/g-shift ; not programmable - in PEM, use flag MyMf ^g
<i>timeDisplayFormatDigits</i>		TDISP	Setting (pgm)	0	Set time display format : 0 = full ; 1,2 = hours/minutes ; 3 = hours/minutes/seconds ; 4,5,6 = 1,2,3 decimal places for the seconds