		Standard Models											
		fx-82ES PLUS	fx-85ES PLUS	fx-350ES PLUS	fx-95ES PLUS	fx-570ES PLUS	fx-991ES PLUS	fx-82ES	fx-85ES	fx-350ES	fx-500ES	fx-991ES	fx-570ES
	Number of functions	252	252	252	274	417	417	249	249	249	253	403	403
Specifications	Power supply (Main)	AAA × 1 (R03)	Two-way power	AAA × 1 (LR03)	AAA × 1(R03)	AAA × 1 (R03)	Two-way power	AAA × 1 (R03)	Two-way power	AAA × 1 (LR03)	AAA × 1 (R03)	Two-way power	AAA × 1 (R03)
	Power supply (Backup)	_	(Solar + LR44 × 1)	_	_	_	(Solar + LR44 × 1)	_	(Solar + LR44 × 1)	_		(Solar + LR44 × 1)	_
	Approximate battery life Main (hours)	17,000* ³	3 years	8,700* ¹	17,000* ³	17,000*3	3 years	17,000*3	3 years	8,700* ¹	17,000*3	3 years	17,000* ³
	Approximate battery life Backup (years)		(LR44)*2				(LR44)*2		(LR44)* ²			(LR44)*2	_
	Dimensions H×W×D(mm)	13.8 × 80 × 162	11.1 × 80 × 162	13.8 × 80 × 162	13.8 × 80 × 162	13.8 × 80 × 162	11.1 × 80 × 162	13.7 × 80 × 161	12.2 × 80 × 161	13.7 × 80 × 161	13.7 × 80 × 161	12.2 × 80 × 161	13.7 × 80 × 161
	Approximate weight (g)	100	95	100 Slide-on hard	100 Slide-on hard	100	95	110 Slide-on hard	105	110	110	105 Slide-on hard	110 Slide-on hard
	Case style	Slide-on hard	Slide-on hard 31 × 96 dots		31 × 96 dots	Slide-on hard 31 × 96 dots	Slide-on hard 31 × 96 dots		Slide-on hard	Slide-on hard 31 × 96 dots	Slide-on hard 31 × 96 dots	31 × 96 dots	31 × 96 dots
	Dot matrix display	31 × 96 dots		31 × 96 dots				31 × 96 dots	31 × 96 dots				
	Display capacity (characters) Mantissa + exponent digits	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2	15 10 + 2
	Icon menus	_	_	_	_	_	_	_	_	_	_	_	_
	Internal operation digits Nested parentheses levels	15 24	15 24	15 24	15 24	15 24	15 24	15 24	15 24	15 24	15 24	15 24	15 24
Programming Functions	Program logic	_	_	_	_	_	_	_	_	_	_	_	_
	Memory (bytes)	_	_	_	_	_	_	_	_	_	_	_	_
	Program areas Storage memory area (Flash memory)	_	_	_	_	_	_	_	_	_	_	_	_
	Built-in formulas	_	_	_	_	_	_	_	_	_	_	_	_
	Natural textbook display / NATURAL-V.P.A.M. Key rollover function	•	•	•	•	•	•	•	•	•	•	•	•
	Replay function	•	•	•	•	•	•	•	•	•	•	•	•
Utilities	Multi-replay functions	•	•	•	•	•	•	•	•	•	•	•	•
	Replay copy Backspace	-	•	•	•	-	-	•	•	_	_	-	•
	CALC function	_	_	_	_	•	•	_	_	_	_	•	•
	SOLVE function Answer function	_	_	_	_	•	•	_	_	_	_	•	•
	Variables				•	•	•	•	•	•	•	•	•
	Onboard function manual	_	_	_	_	_	_	_	_	_	_	_	_
	Syntax help Auto power off	-	•	•	•	•	•	•	<u> </u>	<u> </u>	_ •	<u> </u>	<u> </u>
Special Features	Base-n calculations (Binary/Octal/Hexadecimal)	_	_	_	_			_	_	_	_	•	•
	Logical operations Engineering symbol calculations	_		_	_	_	_	_	_	_	_ _	•	•
	Engineering notation (ENG/ENG)	•	•	•	•	•	•	•	•	•	•	•	•
	Scientific constants	_	_	_	_	40	40	_	_	_	_	40	40
CAS	Metric conversions Computer Algebra System	_	_	_	_	40	40	_	_	_	_	40	40
Basic Functions	Trigonometric, inverse trigonometric (sin/cos/tan/sin ⁻¹ /cos ⁻¹ /tan ⁻¹)	•	•	•	•	•	•	•	•	•	•	•	•
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/sinh ⁻¹ /cosh ⁻¹ /tanh ⁻¹) Exponential, logarithmic (log, In, 10°, e°)	•	•	•	•	•	•	•	•	•	•	•	•
	Base specified logarithmic												•
	Power and radical root $(x^y/x\sqrt{})$	•	•	•	•	•	•	•	•	•	•	•	•
	Fraction Percentage calculation (%)				•		•	•	•	•	•	•	
	Rounding	•	•	•	•	•	•	•	•	•	•	•	•
	Simplification Integer division	_	_	_	_	_	_	_	_	_	_ _	_	_
	GCD/LCM	_	_	_	_	_	_	_	_	_	_	_	_
	Sexagesimal ↔ decimal	•	•	•	•	•	•	•	•	•	•	•	•
	Display format (FIX, SCI) Angle unit (Deg, Rad, Grad)	•	•		•	•	•	•	•	•	•	•	•
	Angle unit conversion (Deg, Rad, Grad)	•	•	•	•	•	•	•	•	•	•	•	•
	Factorization into prime factors Ratio calculation	•	•	•	•	_	_	_	_	_	_	_	_
Calculus	Differentiation calculation	_	_	_	_	•	•	_	_	_	_	•	•
vaivuida	Integration calculation	_	_	_	— (2alva	• (2 upknowno)	• (2alva	_	_	_	— (2 ml m · · · · ·	(2 unknowno)	(2 unknowno)
Algebra	Simultaneous equation Polynomial equation	_	_	_	(3 unknowns) (Degree 2, 3)	(3 unknowns) (Degree 2, 3)	(3 unknowns) (Degree 2, 3)	_	_	_	(3 unknowns) (Degree 2, 3)	(3 unknowns) (Degree 2, 3)	(3 unknowns) (Degree 2, 3)
	Inequality calculation	_	_	_	•	_	_	_	_	_	_	_	_
	Table function Matrix calculations	• —	• —	• —	• —	•	•	• —	• —	• —	• -	•	•
	Complex number calculation	_	_	_	_			_	_	_	_		
Coometry	Geometry Application	_	_	_	_	_ •	_	_	_	_	_	_	_
Geometry	Coordinate conversion (Pol, Rec) Vector calculations	_	_	_	_			_	_	_	_		
Probability	Combination, permutation (nCr, nPr)	•	•	•	•	•	•	•	•	•	•	•	•
Statistics	Random numbers Random integers	•	•	•	•	•	•	-	• —	_	-	-	-
	List-based STAT data editor	•	•	•	•	•	•	•	•	•	•	•	•
	Standard deviation	•	•	•	•	•	•	•	•	•	•	•	•
	Regression analysis Linear regression	•	•	•	•	•		•	•	•	•	•	•
	ab Exponential regression	•	•	•	•	•	•	•	•	•	•	•	•
	Advanced statistics	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,	Log, Exp, Pwr,
	Other regressions	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad	Inv, Quad
Finance Spreadsheet	Financial function Spreadsheet												_
Others	eActivity	_	_	_	_	_	_	_	_	_	_	_	_
	Data communication	_	_	_	_	_	_	_	_	_	_	_	_
	Others	_	_	_	_	_	_	_	_	_	_	_	_
		dianlay par haur	*2 1 hour uso no	r day *3 Continu									

^{*1} Continuous operation (assuming 5 minutes calculation and 55 minutes display per hour) *21 hour use per day *3 Continuous display of flashing cursor