

		Graphic Models						Programmable Models				
Model		fx-9860G Slim	fx-9860G SD	fx-9860G	ALGEBRA FX 2.0 PLUS	CFX-9850GC PLUS	fx-9750G PLUS	fx-7400G PLUS	fx-5800P	fx-50F PLUS	fx-50F	
Specifications	Number of functions	Over 1,000	Over 1,000	Over 1,000	Over 1,500	905	900	406	664	406	262	
	Power supply (Main)	AAA × 2	AAA × 4	AAA × 4	AAA × 4	AAA × 4	AAA × 4	AAA × 2	AAA × 1 (LR03)	Two-way power (Solar + LR44 × 1)	Two-way power (Solar + GR927 × 1)	
	Power supply (Backup)	—	CR2032 × 1	CR2032 × 1	CR2032 × 1	CR2032 × 1	CR2032 × 1	CR2032 × 1	—	—	—	
	Approximate battery life Main (hours)	140 (LR03)*1	300 (LR03)*1	300 (LR03)*1	140 (R03)*2/230 (LR03)*2	180 (R03)*2/320 (LR03)*2	240 (R03)*2/420 (LR03)*2	900 (R03)*2/1,500 (LR03)*2	1 year	3 years (LR44)*3	7 years*3	
	Approximate battery life Backup (years)	—	5	5	2	2	2	2	—	—	—	
	Dimensions H × W × D (mm)	20.7 × 122 × 89	24 × 92.5 × 184.5	24 × 92.5 × 184.5	19.5 × 82 × 178	24.5 × 90 × 182.5	24.5 × 90 × 182.5	23 × 85.5 × 169	15.1 × 81.5 × 163	12.2 × 80 × 161	8 × 73 × 140	
	Approximate weight (g)	200	265	260	213	215	215	185	150	105	68	
	Case style	—	Slide-on hard	Slide-on hard	Slide-on hard	Snap-on hard	Snap-on hard	Snap-on hard	Integrated hard	Slide-on hard	Wallet	
	Dot matrix display	64 × 128 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	48 × 80 dots	31 × 96 dots	5 × 7 dots × 16 digits	—	
	Display capacity (characters)	21 × 8	21 × 8	21 × 8	21 × 8	21 × 8	21 × 8	13 × 6	16	16	10	
	Mantissa + exponent digits	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 (9 + 2)	10 + 2	10 + 2	10 + 2	
	Icon menus	●	●	●	●	●	●	●	—	—	—	
	Internal operation digits	15	15	15	15	15	15	15	15	15	12	
	Parentheses level	26	26	26	26	26	26	26	26	24	18	
Programming Functions	Program logic	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (Learn)	
	Memory (bytes)	63,000	63,000	63,000	146,000	61,000	28,000	20,000	28,500	680	29 step	
	Program areas	Limited to memory capacity	Limited to memory capacity	Limited to memory capacity	Limited to memory capacity	Limited to memory capacity	Limited to memory capacity	Limited to memory capacity	Limited to memory capacity	4	2	
	Storage memory area (Flash memory)	1.5MB	1.5MB	1.5MB	768KB	—	—	—	—	—	—	
	Built-in formulas	—	—	—	—	—	—	—	128	23	23	
Utilities	Natural textbook display	●	●	●	—	—	—	—	●	—	—	
	Key rollover function	●	●	●	●	●	●	●	●	●	—	
	Replay function	●	●	●	●	●	●	●	●	●	—	
	Multi-replay functions	●	●	●	●	●	●	●	●	●	—	
	Replay copy	—	—	—	—	—	—	—	—	—	—	
	Backspace	●	●	●	—	—	—	—	●	●	●	
	CALC function	—	—	—	—	—	—	—	●	—	—	
	SOLVE function	●	●	●	●	●	●	●	●	—	—	
	Answer function	●	●	●	●	●	●	●	●	●	—	
	Variable memory	28	28	28	28	28	28	26	26 – 2398	7	7	
Onboard function manual	●	—	—	—	—	—	—	—	—	—		
Syntax help	●	—	—	—	—	—	—	—	—	—		
Auto power off	●	●	●	●	●	●	●	●	●	●		
Special Features	Base-n calculations (Binary/Octal/Hexadecimal)	●	●	●	●	●	●	—	●	●	—	
	Logical operations	●	●	●	●	●	●	—	●	●	—	
	Complex number calculation	●	●	●	●	●	●	—	●	●	—	
	Engineering symbol calculations	●	●	●	●	●	●	—	●	●	—	
	Engineering notations (ENG/ENG)	—	—	—	—	—	—	—	40	40	9	
	Metric conversions	—	—	—	—	—	—	—	—	—	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, ln, 10 ^x , e ^x)	●	●	●	●	●	●	—	●	●	●	
	Base specified logarithmic	●	●	●	—	—	—	—	●	●	●	
	Square and square root (x ² /√)	●	●	●	●	●	●	●	●	●	●	
	Cubic and cubic root (x ³ / ³ √)	³ √ only	³ √ only	³ √ only	³ √ only	³ √ only	³ √ only	³ √ only	³ √ only	³ √ only	³ √ only	
	Power and radical root (x ^y / ^x √)	●	●	●	●	●	●	●	●	●	●	
	Independent key for x ² / ³ √	—	—	—	—	—	—	—	—	—	—	
	Fraction	●	●	●	●	●	●	●	●	●	●	
	Percentage calculation (%)	—	—	—	—	—	—	—	—	—	—	
	Rounding	●	●	●	●	●	●	●	●	●	●	
	Simplification	—	—	—	—	—	—	—	—	—	—	
	Integer division	—	—	—	—	—	—	—	—	—	—	
	Sexagesimal ↔ decimal	●	●	●	●	●	●	●	●	●	●	
Display format (FIX, SCI)	●	●	●	●	●	●	●	●	●	●		
Angle unit (Deg, Rad, Grad)	●	●	●	●	●	●	●	●	●	●		
Angle unit conversion (Deg, Rad, Grad)	●	●	●	●	●	●	●	●	●	●		
Calculus	Differentiation calculation	●	●	●	●	●	●	●	●	—	—	
	Integration calculation	●	●	●	●	●	●	—	●	—	—	
Algebra	Simultaneous equation	● (6 unknowns)	● (6 unknowns)	● (6 unknowns)	● (30 unknowns)	● (6 unknowns)	● (6 unknowns)	—	● (5 unknowns)	—	—	
	Polynomial equation	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2–30)	● (Degree 2, 3)	● (Degree 2, 3)	—	● (Degree 2, 3)	—	—	
	Table function	—	—	—	—	—	—	—	—	—	—	
Geometry	Coordinate conversion (Pol, Rec)	●	●	●	●	●	●	●	●	●	●	
	Vector calculations	—	—	—	—	—	—	—	—	—	—	
Probability	Combination, permutation (nCr, nPr)	●	●	●	●	●	●	●	●	●	●	
	Random numbers	●	●	●	●	●	●	●	●	●	●	
Statistics	List-based STAT data editor	●	●	●	●	●	●	●	●	●	—	
	Standard deviation	●	●	●	●	●	●	●	●	●	●	
	Regression analysis	●	●	●	●	●	●	●	●	●	●	
	Linear regression	●	●	●	●	●	●	●	●	●	●	
	ab Exponential regression	—	—	—	—	—	—	—	—	●	●	
	Advanced statistics	●	●	●	●	●	●	—	—	—	—	
	Other regressions	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Log, Exp, Pwr	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	—	
Finance	Financial function	—	—	—	—	—	—	—	—	—	—	
	Spreadsheet	—	—	—	—	—	—	—	—	—	—	
Others	eActivity	● (eActivity Guide)	●	●	—	—	—	—	—	—	—	
	Data communication	—	—	—	●	●	●	●	—	—	—	
	Label printer link	—	—	—	●	●	●	●	—	—	—	
Others	Recursions Backlight display	Recursions	Recursions	Recursions	Recursions	Recursions	—	Recursions	—	—		

		Programmable Models			Standard Models					
Model		fx-3650P	fx-3950P	fx-4500PA	fx-82ES	fx-85ES	fx-350ES	fx-500ES	fx-991ES	fx-570ES
Specifications	Number of functions	279	279	242	249	249	249	253	403	403
	Power supply (Main)	Two-way power (Solar + LR44 × 1)	LR44 × 1	CR2032 × 1	AAA × 1 (R03)	Two-way power (Solar + LR44 × 1)	AAA × 1 (R03)	AAA × 1 (R03)	Two-way power (Solar + LR44 × 1)	AAA × 1 (R03)
	Power supply (Backup)	—	—	CR2032 × 1	—	—	—	—	—	—
	Approximate battery life Main (hours)	3 years (LR44)*3	9,000*4/3 years*5	5,000*4	17,000*4	3 years (LR44)*3	8,700*1	17,000*4	3 years (LR44)*3	17,000*4
	Approximate battery life Backup (years)	—	—	2	—	—	—	—	—	—
	Dimensions H × W × D (mm)	11.8 × 80 × 159	11.8 × 80 × 159	9.9 × 73 × 141.5	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	100	85	110	105	110	110	105	110
	Case style	Snap-on hard	Snap-on hard	Wallet	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard
	Dot matrix display	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 7 dots × 12 digits	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots
	Display capacity (characters)	12	12	12	15	15	15	15	15	15
	Mantissa + exponent digits	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2
	Icon menus	—	—	—	—	—	—	—	—	—
	Internal operation digits	12	12	12	15	15	15	15	15	15
	Parentheses level	24	24	24	24	24	24	24	24	24
Programming Functions	Program logic	●	●	●	—	—	—	—	—	—
	Memory (bytes)	360	360	1,103	—	—	—	—	—	—
	Program areas	4	4	Limited to memory capacity	—	—	—	—	—	—
	Storage memory area (Flash memory)	—	—	—	—	—	—	—	—	—
	Built-in formulas	—	—	—	—	—	—	—	—	—
Utilities	Natural textbook display	—	—	—	●	●	●	●	●	●
	Key rollover function	●	●	●	●	●	●	●	●	●
	Replay function	●	●	●	●	●	●	●	●	●
	Multi-replay functions	●	●	●	●	●	●	●	●	●
	Replay copy	—	—	—	—	—	—	—	—	—
	Backspace	●	●	●	●	●	●	●	●	●
	CALC function	—	—	●	—	—	—	—	—	—
	SOLVE function	—	—	—	—	—	—	—	—	—
	Answer function	●	●	●	●	●	●	●	●	●
	Variable memory	7	7	26 – 163	7	7	7	7	7	7
Onboard function manual	—	—	—	—	—	—	—	—	—	
Syntax help	—	—	—	—	—	—	—	—	—	
Auto power off	●	●	●	●	●	●	●	●	●	
Special Features	Base-n calculations (Binary/Octal/Hexadecimal)	●	●	●	—	—	—	—	●	●
	Logical operations	●	●	●	—	—	—	—	●	●
	Complex number calculation	●	●	—	—	—	—	—	●	●
	Engineering symbol calculations	—	—	●	—	—	—	—	—	—
	Engineering notations (ENG/ENG)	●	●	●	●	●	●	●	40	40
	Metric conversions	—	—	—	—	—	—	—	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, ln, 10 ^x , e ^x)	●	●	●	●	●	●	—	●	●