Provided by Xpert Survey Equipment Click Sokkia FX-102 for Product Info and Updated Pricing

FX Series

FX-101/FX-102/FX-103/FX-105/FX-107 Functional X-ellence Station

SPECIFICATIONS

Model		FX-101	FX-102	FX-103	FX-105	FX-107
Telescope			·			
Magnification / Resolving power		30x / 2.5"				30x / 3.5"
Others		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm (1.9in.) for EDM),				
		Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness I				
Angle measurement						
Display resolution		0.5" / 1"	1" / 5"			
		(0.0001 / 0.0002gon, 0.002 / 0.005mil)	(0.0002 / 0.001gon,	0.005 / 0.02mil)		
Accuracy (ISO 17123-3:2001)		1"	2"	3"	5"	7"
IACS (Independent Angle Calibration System)		Provided		-		
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, working range: ±6' (±111mgon) / Collimation compensation available				
Distance measurement						
Laser output *1		Reflectorless mode: 0	Class 3R / Prism / shee	et mode: Class 1		
Measuring range (under average conditions *2)	Reflectorless*3	0.3 to 500m (1.0 to 1,640ft.)				
	Reflective sheet*4/*5	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320				
	Mini prisms	CP01: 1.3 to 2,500m (8,200ft.), OR1PA: 1.3 to 500m (1,640ft.)				
	One AP prism	1.3 to 4,000m (4.3 to 13,120ft.) / Under good conditions*6: 5,000m (16,400ft.)				
	Three AP prisms	to 5,000m (16,400ft.) / Under good conditions*6: to 6,000m (19,680ft.)				
Display resolution		Fine/Rapid: 0.001m / 0.01ft. / 1/8in. Tracking: 0.01m / 0.1ft. / 1/2in.				
Accuracy*2 (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless*3	(3 + 2ppm x D) mm* ⁷				
	Reflective sheet*4	(3 + 2ppm x D) mm				
	AP/CP prism	(2 + 2ppm x D) mm				
Measuring time*8	Fine: 0.9s (initial 1.7s), Rapid: 0.7s (initial 1.4s), Tracking: 0.3s (initial 1.4s)					
OS, Interface and Data ma	anagement					
Operating system / Application		Microsoft Windows® CE 6.0 / MAGNET Field				
Display / Keyboard		3.5inch, Semi-transmissive TFT QVGA color LCD with LED backlight, Touch screen,				
		Automatic brightness control / 26 keys with backlight				
Control panel location*9		On both faces (Face 2 is only touch screen display) On one face				
Trigger key		On right instrument support				
Data storage	Internal memory	500MB internal memory (includes memory for program files)				
	Plug-in memory device	USB flash memory (max. 8GB)				
Interface		Serial RS-232C, USB2.0 (Type A / mini B)				
Bluetooth modem (Factory option)*10		Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 300m (980ft.)*11				
General						
Laser-pointer*12		Coaxial red laser using EDM beam				
Guide light*12		Green LED (524nm) and Red LED (626nm), Operating range: 1.3 to 150m (4.3 to 490ft.) ²				
Levels	Graphic	6' (Inner Circle)				
	Circular level	10' / 2mm				
Optical plummet		Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom				
Laser plummet (option)		Red laser diode (635nm±10nm), Beam accuracy: ≦1.0mm@1.3m, Class 2 laser product				
Dust and water protection		IP65 (IEC 60529:2001)				
Operating temperature*13		-20 to +50°C (-4 to +122°F)				
Size with handle*9		Control panel on both faces: W191 x D190 x H348mm (W7.5 x D7.5 x H13.7in.)				
		Control panel on one face: W191 x D174 x H348mm (W7.5 x D6.9 x H13.7in.)				
Weight with battery & tribrach		Approx. 5.7kg (12.6 lb.)				
Power supply						
Battery	BDC70 detachable battery	Li-ion rechargeable b	attery			
Operating time (20°C)	BDC70		gle distance measurer	ment every 30 seco	nds)	
	External battery *14 (option)					every 30 seconds)

*1 IEC60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1040.10 and 11 *2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation. *3 Fine mode. With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 lx. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *4 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target. *5 Measuring range in temperatures of -30 to -20°C (-22 to -4°F) with Low Temperature models and 50 to 60°C (122 to 140°F) with High Temperature models: RS90N-K: 1.3 to 300m (4.3 to 980ft.), RS50N-K: 1.3 to 180m (4.3 to 590ft.), RS10N-K: 1.3 to 60m (4.3 to 190ft.) *6 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation. *7 Measuring range:0.3 to 200m *8 Typical, under good conditions. Reflectorless measurement time may vary according to measuring objects, observation situations and environmental conditions. *9 Control panel location may vary depending on region or model. *10 Usage approval of Bluetooth wireless technology varies according to country. Please consult your local office or representative in advance. *11 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. *12 The laser-pointer and the guide light do not work simultaneously. *13 Low Temperature models:-30 to 50 °C (-22 to 122°F) and High Temperature models:-20 to 60°C (-4 to 140°F, No direct sunlight) are available on built-to-order basis. *14 For FX-101, FX-102 and Low Temperature models.

Standard Accessories

•FX main unit •Battery (BDC70) •Battery charger (CDC68) •Power Cable •Lens cap •Lens hood •Tool pouch •Screwdriver •Lens brush •Adjusting pin x2 •Cleaning cloth •Operation manual •USB memory •Laser caution sign-board •Carrying case •Carrying strap



Logo

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Your local Authorized Dealer is:



FX Series

Functional X-ellence Station



- Windows ® CE is Ready in a Lightweight, Compact Body
- **MAGNET** Field On-Board Application Software
- RED-tech Technology Reflectorless EDM
- LongLink Data Communication *
- Advanced Angle Measurement System



The FX Total Station Offers High Performance in a Compact Size.

■Windows® CE is Ready in a **Lightweight, Compact Body** s7INDOWS®#%PROVIDESACOMFORTABLEOPERATINGENVIRONMENT s#OMPLETELYNEWONBOARDAPPLICATIONh-!". WELDVISINSTALLEDAS STANDARDFEATURE **■MAGNET**[™]

Cloud-based Solutions for Precise Positioning

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■ MAGNET[™] Field

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■RED-tech Technology Reflectorless EDM

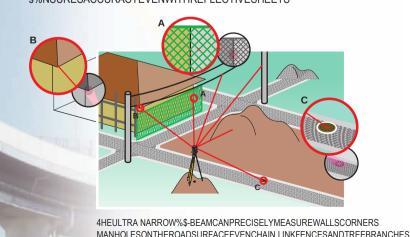
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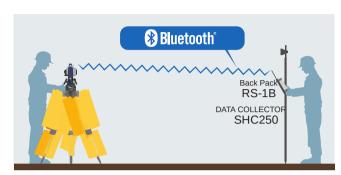
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■LongLink Data Communication



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■Advanced Angle **Measurement System**

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MEASUREMENT

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■Waterproof, Rugged, and **Operator Friendly**

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■Long-lasting Battery

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