

LINERTEC

LTS-230N Series Total Stations Total Surveying Solution

LTS-231N / LTS-232N / LTS-235N



- Long EDM Range
- Measuring Distance:
in reflectorless up to 300m
and in prism mode
up to 4,000m
- Large Internal Memory:
60,000 points
- Dual Display as
a Standard Equipment
- Easy Transfer to a PC
via SD card, USB mini
and RS-232C data port
- Pre-loaded Versatile
Software Functions

**Increase your
work efficiency**

Model		LTS-231N	LTS-232N	LTS-235N
Telescope	Image		Erect	
	Magnification		30X	
	Effective Aperture		45mm	
	Resolving Power		3.0"	
	Field of View		1°25'	
	Minimum Focus Distance		1.0m	
	Focus		Manual	
	Laser Class		Visible Laser : Class IIIa (Reflectorless) / Class II (Prism,sheet)	
Measurement Range (Good condition) *3				
	Reflectorless *1		300m	
	Reflector Sheet *2		800m	
	Mini Prism		1,200m	
	1P		4,000m (under good conditions)	
Accuracy	Prism		±(3+2ppm x D)mm 1.5~10m ±(2+2ppm x D)mm 10m~	
	Reflector Sheet		±(3+2ppm x D)mm 1.5~10m ±(2+2ppm x D)mm 10m~	
	Reflectorless		±(5+2ppm x D)mm 0.5~10m ±(3+2ppm x D)mm 10m~200m ±(7+10ppm x D)mm ~200m	
			0.1mm (Fine mode), 1mm (Normal), 1cm (Track mode)	
Minimum Count				
Measurement Time *4 Initial Meas.				
			Prism: 2.3" (1 mm off) Sheet: 2.3"1 (1 mm off)	
			Reflectorless: 2.5" (0.5m~200m) 6.5" (200m~)	
Repeat Meas.				
			Prism: 1.2" Sheet: 1.2"	
			Reflectorless: 1.4" (0.5~200m) 1.8" (200m~)	
Angle Measurement				
	Measuring Method		Absolute Rotary Encoder	
	Detection Method		Vertical / Horizontal Angle	
			2 sides	
	Minimum Mount	0.5"/1"		1" / 5"
	Accuracy (ISO17123-3)	1"	2"	5"
Compensator				
Tangent Screw				
		2Speed		1Speed
Sensitivity of Vials				
	Plate Level		60" Circular type electric vial	
	Circular Level	20"/2mm		30"/2mm
Plummet				
Base				
Dust and Water Protection				
Ambient Temperature				
			IP55 (instrument only)	
Tripod Thread				
			5/8" x 11	
Dimensions/Weight Dimensions				
			183 (W) x 342 (H) x 167 (L)mm	
Weight (not incl. battery)				
			5.0kg	
Carrying Case				
			440(W) x 370 (H) x 275 (L)mm / 3.9 kgs.	
Battery Pack				
	Power Source		Li-ion 4400mAh	
	Operation Time		Continuous approx. XXhrs (ETH+EDM) with approx. 2.5hrs. of Charging Time	
	Weight		230g	
Battery Charger and AC Adapter				
	Input Voltage (AC05)		AC 100 ~ 240V	
	Output Voltage (BC05)		DC8.4V	
Data Process				
	Data Recording Method		Internal Memory	
	Coordinates Data	60,000		40,000
	Special Function		PowerTopoLite+SHOT Key	
	I/F		RS-232C, SD CARD, USB mini, Bluetooth(class2)	
Display / Keyboard				
	Display Type		Graphic LCD / 20 Characters x 8 Lines / 240 x 96 Pixels	
	Quantity		2	
	Keys		22 each (12 numeric / 5 function / 5 special)	
Display Back Light				
			Yes	
Laser Pointer				
			Yes	
Date Clock				
			Yes	

NOTE :

- *1 The measurement range and accuracy of reflectorless, and time required to measure may vary by the shape, size of surface area and reflection rate of the target and its environment.
The measurement range of reflectorless is determined by the white side of the Kodak Gray Card.
- *2 Reflector sheet: Genuine Reflector sheet
- *3 The measurement range may vary by conditions of the environment.
Normal conditions: 20km visibility with slight shimmer
Good conditions: 40km visibility with overcast, no heat, no shimmer and moderate wind.
- *4 EDM measuring time is determined in good conditions. It may takes longer than usual to measure the distance exceeding 2000m in prism mode and 300m in reflectorless mode.

* Specifications are subject to change without any notice

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