

LINERTEC

LTS-200N Series Total Stations Total Surveying Solution

LTS-202N/LTS-205N

- Long EDM range
- Measuring distance in reflectorless up to 500m and in prism mode up to 3,000m
- 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
Faster Turnaround**

Model		LTS-202N	LTS-205N
Telescope	Image	Erect	
	Magnification	30 x	
	Effective aperture	45mm	
	Resolving power	3.0"	
	Field of view	1°20'	
	Minimum focus distance	1.0m	
	Focus	Manual	
	Laser Class	Visible Laser : Class IIIa (Reflectorless, sheet) / Class I (Prism)	
	Measurement range (Good condition) *3		
	Reflectorless *1	500m	
	Reflector sheet *2	800m	
	Mini prism	1200m	
	1P	3000m	
Accuracy	Prism	±(2+2ppm x D)mm	
	Reflector sheet	±(3+2ppm x D)mm	
	Reflectorless	2.0m ~ 200m: ±(3+2ppm x D)mm 200m ~ 300m: ±(5+2ppm x D)mm 300m ~ 500m: ±(10+2ppm x D)mm	
	Minimum count	0.1 mm (Fine mode) , 1 mm (Normal/ Track mode)	
Measurement time *4	Initial meas.	Prism: 3.0"	
		Ref.sheet: ~300m 3.0"(over 300m ≥3.0") Reflectorless: ~200m 3.0"(over 200m ≥3.0")	
	Repeat meas.	Prism: 2.0"	
		Ref.sheet: 3.0" Reflectorless: ~200m 2.0" (over 200m ≥2.0")	
Angle measurement	Measuring method	Absolute rotary encoder	
	Detection method	Vertical / Horizontal angle	
	Minimum count	2 sides	
	Accuracy (ISO17123-3)	2"	5"
Compensator		2 axis	
Tangent Screw		1 Seed/Clamping (<30")	
Sensitivity of vials	Plate level	30"/1 div. (electrical)	
	Circular level	30"/2mm	
Plummet		Visible Laser, ±0.5mm (instrument height 1.5m)	
Base		Detachable	
Dust and Water Protection		IP55 (instrument only)	
Ambient temperature		-20°C ~ 50°C / -4°F ~ 122°F (Working range)	
Tripod thread		5/8" x 11	
Dimensions/Weight	Dimensions	183 (W) x 342(H) x 167(L)mm	
	Weight (not incl. battery)	5.4kgs.	
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. 8.0hrs (ETH+EDM) with approx. 2.5hrs. of charging time	
	Weight	5400g	
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	60000	
	Special function	LinertecExpress	
Display / Keyboard	I/F	RS-232C, SD CARD, USB mini,Bluetooth(class2)	
	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		Intensity settings: 10 steps	
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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The CE marking assures that this product complies with the requirements of the EC directive for safety.