

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	
	Prism		±(2+2ppm x D)mm	
Accuracy	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")	
	Repeat meas.		Reflectorless: ~200m 3.0"(over 200m ≥3.0")	
			Prism: 2.0"	
			Ref.sheet: 3.0"	
Angle measurement	Measuring method		Absolute rotary encoder	
	Detection method		Vertical / Horizontal angle	
	Minimum count		2 sides	
	Accuracy (ISO17123-3)	2"	1" / 5"	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	
Display back light	Keys		22 each (12 numeric / 5 function / 5 special)	
			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

TI Asahi Co., Ltd.



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The CE marking assures that this product complies with the requirements of the EC directive for safety.