

LINERTEC

LTS-200N Series Total Stations Total Surveying Solution

LTS-201N / LTS-202N / LTS-203N / LTS-205N

- Long EDM Range
- Measuring Distance:
in reflectorless up to 500m
and in prism mode
up to 5,000m
- 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**

The LTS-200N is a full-featured total station with reflectorless measuring capability which provides exceptional performance and a cost effective solution to a wide range of general and concrete construction applications and is designed to be accessible to users of all skill levels.



Advanced EDM

Quick and accurate distance measurement with maximum range 300m in Reflectorless mode and 4,000m in prism mode. Target can be easily switched with a light touch of a finger



Large Memory

The on-board memory of LTS-200 has capacity of storing 60,000 points allowing you to handle efficiently any measurement and inspection tasks. Several days worth of data collection.

Onboard Software



Linertec Express

LTS-200 comes equipped with full-featured LinertecExpress software that helps you handle your most difficult survey jobs. This powerful software package features an easy-to-use operator interface that guides you through all measuring jobs. LinertecExpress's architecture provides open access to a number of powerful integrated functions to solve any advanced surveying application.

Various Data Transport and Communication Options

Stored coordinate & observation data can be easily exchanged between LTS-200 and your PC using SD Card, USB Data Cable and RS232C Cable. Class 2 Bluetooth module is also equipped for communicating with external data collecting mobile devices.



- USB Data Cable
- SC Card
- Bluetooth
- RS232C Cable

Standard Configuration



- Instrument
- Carrying case
- BP04 Battery (2 pcs.)
- BC04 Charger
- AC Adapter
- Power supply cord
- Plumb bob
- Plummet hook
- Hexagonal wrench
- Adjusting pin
- Screwdriver
- Rain cover
- CD-ROM
- (Manuals & Data transfer software)
- USB cable
- RS232 cable
- SD card(2GB)

Model	LTS-201N	LTS-202N	LTS-203N	LTS-205N	
Telescope	Image		Erect		
	Magnification		30 x		
	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, sheet) / Class I (Prism)		
	Measurement Range (Good condition) *3	Reflectorless *1		500m	
Reflector Sheet *2		800m			
Mini Prism		1200m			
1P		5000m under good conditions			
Accuracy		±(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		0.1mm (Fine mode), 1mm (Normal/Track mode)		
	Measurement Time *4		Prism: 3.0"		
Measurement Time *4	Initial Meas.		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"		
	Angle Measurement		Reflectorless: ~200m 2.0" (over 200m ≥2.0")		
	Measuring Method		Absolute Rotary Encoder		
Angle Measurement	Detection Method		Vertical / Horizontal Angle		
	Minimum Mount		2 sides 1" / 5"		
	Accuracy (ISO17123-3)		1"	2"	3"
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 take 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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