

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**

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.

**Compact and
Lightweight**

**IP55
Water & Dust
Protection**

**2 Standard
Li-Ion Batteries**

**Large Graphic
Display**

**Laser Plummet
for
Easy and Quick
Set-up**

**Quick Distance
Measurement**

**Telescope with
30x
Magnification**

**Indicator LED
for
Laser Beam**

**Absolute Rotary
Encoder**

**Dual Axis
Compensator**

**Alphanumeric
Keyboard**



Advanced EDM

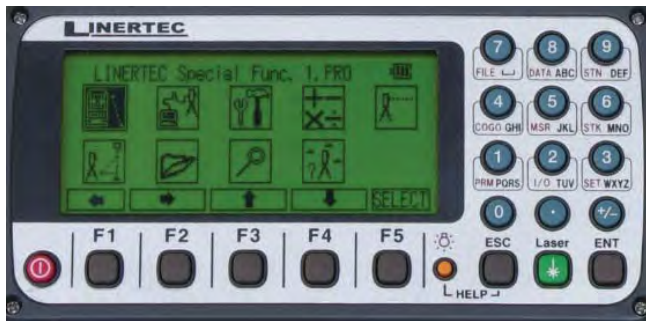
Quick and accurate distance measurement with maximum range 300m in Reflectorless mode and 3,000m in prism mode. Target can be easily switched with a light touch of a finger



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 LinerTEC Express 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. LinerTEC Express'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-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: ±(1.0+2ppm x D)mm	
Measurement Time *4	Minimum Count	0.1mm (Fine mode) , 1mm (Normal/Track mode)	
	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	
		2 sides	
	Minimum Mount	1° / 5"	
	Accuracy (ISO 17123-3)	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	
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

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



ISO 9001:2008