

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**

LINERTEC Technical Specifications LTS-200N Series Total Station

* Designs and specifications are subject to change without notice. Printed in Belgium - © LINERTEC 2014 - LEAF-LTS200N-EN-1405

| Model | | LTS-202N | LTS-205N |
|---------------------------------------|----------------------------|------------------|--|
| Telescope | Image | | Erect |
| | Magnification | | 30 x |
| | Effective aperture | | 45mm |
| | Resolving power | | 3.0" |
| | Field of view | | 1°30' |
| | 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 | | ±(5+2ppm x D)mm |
| | Minimum count | | Track mode: over300m, ±(10+2ppm x D)mm 0.1mm (Fine mode), 1mm (Normal/ Track mode) |
| Measurement time *4 | Initial meas. | | Prism: 3.0" Refsheet: ~300m 3.0"(over 300m ≥3.0") Reflectorless: ~200m 3.0"(over 200m ≥3.0") |
| | | Repeat meas. | Prism: 2.0" Refsheet: 3.0" Reflectorless: ~200m 2.0" (over 200m ≥2.0") |
| | Measuring method | | Absolute rotary encoder |
| | | Detection method | |
| | Angle measurement | Minimum count | |
| 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 |
| Battery charger and AC Adapter | Weight | | 5400g |
| | Input voltage (AC05) | | AC 100 ~ 240V |
| Data Process | Output voltage (BC05) | | DC8.4V |
| | Data recording method | | Internal Memory |
| | Coordinates data | | 60000 |
| Display / Keyboard | Special function | | LinertecExpress |
| | I/F | | RS-232C, SD CARD, USB mini, Bluetooth(class2) |
| | Display type | | Graphic LCD / 20 characters x 8 lines / 240 x 96 pixels |
| Display back light | Quantity | | 2 |
| | Keys | | 22 each (12 numeric / 5 function / 5 special) |
| Laser Pointer | | | Intensity settings: 10 steps |
| 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.

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