

LINERTEC

LGP-300N Series WinCE Total Stations Total Surveying Solution

LGP-301N / LGP-302N / LGP-303N / LGP-305N



- 500m Reflectorless EDM range
- Large easy to use color graphical touch display, alphanumeric key board
- Dual display as a standard equipment
- Easy transfer to a PC via USB mini, Bluetooth (class 2) and RS-232C data port
- Windows CE 7.0 Total Stations

**Increase your
work efficiency
Faster Turnaround**

Model		LGP-301N	LGP-302N	LGP-303N	LGP-305N
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			
Distance measurement	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			
	Prism 1	4000m			
	Prism 3	5000m			
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			
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 count	0.5" / 1"		1" / 5"	
	Accuracy (ISO17123-3)	1"	2"	3"	5"
Compensator	Axis	2 axis			
	Range	±3			
Tangent Screw		1 Seed/Clamping (<30°)			
Sensitivity of vials	Plate level	30"/1 div. (electrical)			
	Circular level	8/2mm			
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 (battery not incl.)	5.4kgs.			
Carrying case	Dimensions / weight	440(W) x 370 (H) x 275 (L)mm / 3.9 kgs.			
Battery pack	Power source	Li-ion 4400mAh			
	Operation time	Continuous approx. 9.0hrs (ETH+EDM) with approx. 2.5hrs. of charging time			
	Weight	5400g			
Battery charger and AC Adapter	Input voltage	AC 100 ~ 240V			
	Output voltage	DC8.4V			
	CPU Memory/Clock frequency	Over 2GB/528MHZ			
Data Process	OS	Microsoft Window CE 7.0			
	Application software	Selectable			
	I/F	RS232C, USB mini, Bluetooth(Class 2), USB Flash Drive			
Display / Keyboard	Display type	3.5" colour TFT LCD (320 x 240 dots) touch screen			
	Quantity	2			
	Keys	26 each			
Display back light		Yes			
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.
International Sales Department
 4-3-4 Ueno Iwatsuki-Ku, Saitama-Shi
 Saitama, 339-0073 Japan
 Tel.: +81-48-793-0118
 Fax: +81-48-793-0128
 E-mail: International@tiasahi.com

www.tilinertec.com



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