

SPECIFICATIONS

| | GPT-3102WN | GPT-3103WN | GPT-3105WN | GPT-3107WN | | GPT-3102WN | GPT-3103WN | GPT-3105WN | GPT-3107WN |
|---|--------------------|------------|------------|------------|--|---|------------|------------|------------|
| TELESCOPE | | | | | BLUETOOTH™ UNIT | | | | |
| Length | 150mm | | | | Bluetooth™ Standard | Bluetooth™ Specification v 1.1 | | | |
| Objective Lens dia. | 45mm (EDM 50mm) | | | | Bluetooth™ class | Output Class 2 | | | |
| Magnification | 30x | | | | Transmitting Range | About 5m (range will be different by a condition) | | | |
| Image | Erect | | | | DISPLAY | | | | |
| Field of View | 1°30' | | | | Display Unit | Graphics LCD 160 x 64 Dots | | | |
| Resolving Power | 2.8" | | | | | 2 sides | | 1 side | |
| Min. Focus Distance | 1.3m (4.9ft.) | | | | Keyboard | Alpha-Numeric Key | | | |
| DISTANCE MEASUREMENT | | | | | Others | | | | |
| Prism Mode | | | | | Measuring Points | Approx. 24,000 points | | | |
| Measuring Range | | | | | Instrument Height | 176mm (6.93 in.) | | | |
| Mini prism | 1,000m* | | | | Laser Class | Class 1 (for distance measurement) Class 2 (Laser Pointer on) | | | |
| 1 prism | 3,000m* / 4,000m** | | | | LEVEL SENSITIVITY | | | | |
| 3 prisms | 4,000m* / 5,300m** | | | | Circular Level | 10' / 2mm | | | |
| 9 prisms | 5,000m* / 6,500m** | | | | Plate Level | 30" / 2mm | | 40" / 2mm | |
| * Condition 1: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer. | | | | | DIMENSION | | | | |
| ** Condition 2: No haze with visibility about 40km (25 miles), overcast with no heat shimmer. | | | | | 336(H) x 184(W) x 172(L)mm / 13.2(H) x 7.2(W) x 6.8(L) in. | | | | |
| Measurement Accuracy ^{*)} | | | | | WEIGHT | | | | |
| Fine: ±(2mm+2ppmxD)m.s.e. Coarse: ±(7mm+2ppmxD)m.s.e. | | | | | Instrument | | | | |
| Measuring Time | | | | | Plastic Carrying Case | | | | |
| Fine mode 1mm: Approx. 1.1 sec. (Initial 2.5 sec.) | | | | | 3.4kg (7.3lbs.) (Weight of the carrying case may be slightly different due to specific market) | | | | |
| 0.2mm: Approx. 1.5 sec. (Initial 3 sec.) | | | | | DURABILITY | | | | |
| Coarse mode 1mm / 10mm: Approx. 0.8 sec. (Initial 2 sec.) | | | | | Protection against water and dust | | | | |
| Non-Prism Mode (Diffusing Surface) | | | | | IP66 (with BT-52QA) (Based on the standard IEC60529) | | | | |
| Measuring Range | | | | | Temperature Range | | | | |
| 1.5m to 350m | | | | | -20°C to +50°C (-4°F to +122°F) | | | | |
| Measuring Accuracy | | | | | BATTERY BT-52QA [Maximum operating time, when fully recharged at +20°C (+68°F)] | | | | |
| ±(3mm+2ppmxD)m.s.e. Coarse: ±(10mm)m.s.e. | | | | | Angle measurement only / Including distance measurement | | | | |
| Measuring Time | | | | | 45 hours / 5 hours | | | | |
| Fine mode 1mm: Approx. 1.7 sec. (Initial 3 sec.) | | | | | Angle measurement only (Bluetooth™ on) | | | | |
| 0.2mm: Approx. 2.6 sec. (Initial 3.5 sec.) | | | | | 25 hours | | | | |
| Coarse mode 1mm / 10mm: Approx. 1.0 sec. (Initial 2 sec.) | | | | | Angle and distance measurement (Bluetooth™ on) | | | | |
| | | | | | 4 hours | | | | |
| | | | | | BATTERY CHARGER BC-27BR / CR | | | | |
| | | | | | Input Voltage | | | | |
| | | | | | AC 120V (BC-27BR), AC 230V (BC-27CR) | | | | |
| ANGLE MEASUREMENT | | | | | Frequency | | | | |
| Method | | | | | 50 / 60Hz | | | | |
| Absolute Reading | | | | | Recharging time (at +20°C / +68°F) | | | | |
| Detecting System | | | | | Battery BT-52QA | | | | |
| H/V: 2 sides H: 2 sides V: 1 side H/V: 1 side | | | | | 1.8 hours | | | | |
| Minimum Reading | | | | | Discharging time (at +20°C / +68°F) | | | | |
| 1"/5" (0.2/1mgon) 5"/10" (1/2mgon) | | | | | Battery BT-52QA | | | | |
| Accuracy ^{*)} | | | | | 8 hours (in case of full charge) | | | | |
| 2" (0.6mgon) 3" (1mgon) 5" (1.5mgon) 7" (2mgon) | | | | | Operating temperature | | | | |
| Diameter of Circle | | | | | -10°C to +40°C (+50°F to +104°F) | | | | |
| 71mm | | | | | Charging signal | | | | |
| TILT CORRECTION (AUTOMATIC INDEX) | | | | | Red lamp illumination | | | | |
| Tilt Sensor | | | | | Refreshing signal | | | | |
| Dual axis Single axis | | | | | Green lamp illumination | | | | |
| Method | | | | | Finishing signal | | | | |
| Liquid type | | | | | Weight | | | | |
| Compensating Range | | | | | 0.5kg (1.1lbs.) | | | | |
| ±3' | | | | | | | | | |
| Correction Unit | | | | | | | | | |
| 1" (0.1mgon) | | | | | | | | | |

Important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

*1 D: Measuring Distance

*2 Standard deviation based on DIN18723



TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashiku, Tokyo 174-8580, Japan
Phone: (+81) 3-3558-2527 / 2521 Fax: (+81) 3-3960-4214
www.topcon.co.jp/eng/

TOPCON SOUTH ASIA PTE. LTD.

Blk 192, Pandan Loop, #07-01 Pantech Business Hub, Singapore 128381
Phone: (+65) 6778-3456 Fax: (+65) 6773-6550
www.topcon.com.sg

Specifications subject to change without notice

©2009 Topcon South Asia Pte. Ltd. All rights reserved.

The Bluetooth word mark is owned by the Bluetooth SIG, Inc. and any use of such mark by Topcon is under license

Your local Authorized Topcon Dealer is: