veying R-2800N Series

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R-2801N | R-2802N | R-2803N | R-2805N

- + Long EDM range: reflectorless up to 800 m and in prism mode up to 3,000 m
- + Large internal memory: 60,000 points

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+ Dual display

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- + Easy transfer to a PC via SD card, USB mini and RS-232C data port
- + Pre-loaded versatile software functions
- + Dual battery system for long time use
- + Bluetooth Class1 Long Link: 100 m

TI Asahi Co.,Ltd Aiming at the future together!

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TOTAL STATION SPECIFICATIONS

| Model | | | R-2801N | R-2802N | R-2803N | R-2805N |
|----------------------------------|---------------------------------------|---------------|--|---|-----------------------------------|---------|
| Telescope | Image | | | | | |
| | Image Magnification | | | Erect | | |
| | | | | <u> </u> | | |
| | Effective Aperture Resolving Power | | | 3.0" | | |
| | | | | 1°25′ | | |
| | Field of View Minimum Focus | | | | | |
| | | | | |) m | |
| | Focus | | | Manual Visible Laser: Class IIIa (Reflectorless, sheet) / Class I (Prism) | | |
| | Laser Class | | | Visible Laser: Class IIIa (Reflec | torless, sheet) / Class I (Prism) | |
| Measurement Range | (Good condition) *3 | | | | | |
| | Reflectorless *1 | | | 1.5 m ~ 800 m | | |
| | Reflector Sheet *2 | | | 1.5 m ~ | | |
| | Mini Prism | | | 1.5 m ~ 800 m | | |
| | 1P | | | 1.5 m ~ 3,000 m | | |
| | 3P | | | | 4,000 m | |
| Accuracy | Prism | | | | m x D) mm | |
| | Reflector Sheet | | | ± (3 + 2 pp | m x D) mm | |
| | Reflectorless | | | 2.0 m ~ 200 m:± (| 3 + 2 ppm x D) mm | |
| | | | | 200 m ~ 300 m:± (| 5 + 2 ppm x D) mm | |
| | | | | 300 m ~ 500 m: ± (10 + 2 ppm x D) mm | | |
| | | | | 500 m ~ 800 m: ± (20 + 10 ppm x D) mm | | |
| | Minimum Count | | | 0.1 mm (Fine mode), 1 mm (Normal mode), 10 mm (Track mode | | |
| Measurement Time *4 | Repeat Meas. Fine (0.1 mm) | | Prism / Ref. Sheet 3.0 sec., Ref.less 3.0 sec. (over 300 m 5.0 sec.) | | | |
| | 1 | Normal (1 mm) | Prism / Ref. Sheet 2.0 sec., Ref.less 2.0 sec. (over 300 m 4.0 sec.) | | | |
| | 1 | Frack (10 mm) | Prism / Ref. Sheet 0.4 sec., Ref.less 0.4 sec. (over 300 m 0.4 sec.) | | | |
| | Initial Meas. F | ine (0.1 mm) | 1.5 ~ 300 m 3.5 sec., over 300 m ~ 13 sec. | | over 300 m ~ 13 sec. | |
| | 1 | Normal (1 mm) | 1.5 ~ 300 m 2.4 sec., over 300 m ~ 12 sec. | | | |
| | | Track (10 mm) | | 1.5 ~ 300 m 2.5 sec., over 300 m ~ 12 sec. | | |
| Angle Measurement | Measuring Method | | | Absolute rotary encoder | | |
| | Detection Method | | | Vertical / Ho | | |
| | | | 2 sides | | | |
| | Minimum Count | | | | / 5″ | |
| | Accuracy (ISO17123-3) | | 1″ | 2" | 3" | 5″ |
| ompensator | | | · · | | xis | |
| ompensator Range | | | | 3' 30" | | |
| angent Screw | | | | 1 Speed / Cla | | |
| Sensitivity of Vials Plummet | Plate Level | | | 30"/1 div. (electrical) | | |
| | Circular Level | | | 8'/2 | | |
| | | | | Visible Laser, ± 0.5 mm (instrument height 1.5 m) | | |
| | | | | Detachable | | |
| ase Just and Water Protection | ++ | | | IP55 (instrument only) | | |
| | | | | | | |
| mbient Temperature | | | | -20°C ~ 50°C / -4°F ~ 122°F (Working range) 5/8″ x 11 | | |
| ripod Thread | Dimonsions | | | | | |
| Dimensions/Weight | Dimensions | | | | H) x 167 (L) mm | |
| | Weight (incl. Battery) | | | | kg | |
| arrying Case | | | | | 275 (L) mm /3.9 kg | |
| Battery Pack | Power Source | | Li-ion 3,350 mAh x 2 = 6,700 mAh (hotswap) | | | |
| | Operation Time | | Continuous approx.8 hrs (ETH+EDM) with approx.2.5 hrs of charging | | | time |
| | Weight | | | 5,4 |)0 g | |
| Battery Charger and AC Adapter | | | | | | |
| | Input Voltage (AC05) | | | AC 100 ~ 240V | | |
| | Output Voltage (BC05) | | | DC8.4V | | |
| Data Process | Data Recording Method | | | Internal Memory | | |
| | Capacity / Coordinates Data | | | Up to 2GB / 60,000 | | |
| | Special Function | | | PowerTopoExpress 2 | | |
| | I/F | | | RS-232C, SD CARD, USB mini, Bluetooth (Class1) | | |
| Display / Keyboard | Display Type | | | Graphic LCD / 20 characters x 8 lines / 240 x 96 pixels | | |
| | Quantity | | | 2 | | |
| | Keys | | | 22 each (12 numeric / 5 function / 5 special) | | |
| Display Back Light | · · · · · · · · · · · · · · · · · · · | | | | ings: 10 steps | |
| .aser Pointer | | | | | 25 | |
| aser runner | | | | | | |

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*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

2 Reflector sneet: Genuine Reflector Sneet
 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 4000m in prism mode and 300m in reflectorless mode.

www.pentaxsurveying.com/en/

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