SPECTRA PRECISION®

FOCUS® 4W TOTAL STATION

SPECSHEET

PERFORMANCE SPECIFICATIONS

Telescope
- Magnification . . . . . 33x (21x/41x with optional eyepieces)
- Effective diameter of objective . . . . . 45mm (1.77 in)
- EDM . . . . . 50 mm (1.97 in)
- Field of view . . . . . 1°20'
- Resolving power . . . . . 3"
- Minimum focusing distance . . . . . 1.5 m (4.9 ft)
- Laser Pointer . . . . . Coaxial red light

Distance measurement
- Reflectorless mode (white target)[1] . . . . . 1.5 m to 300m (4.9ft to 980 ft)
- Prism mode
  - Normal conditions[2]
    - With reflector sheet (5 × 5 cm) . . . . . 1.5 m to 270 m (4.9ft to 885ft)
    - With single prism . . . . . 1.5 m to 3,000 m (4.9 ft to 9,840 ft)
  - Good conditions[3]
    - With reflector sheet (5 × 5 cm) . . . . 1.5 m to 270 m (4.9 ft to 885 ft)
    - With single prism . . . . . 1.5 m to 3,000 m (4.9 ft to 9,840 ft)

Accuracy (Precise mode)
- Prism[4] . . . . . ±(2+2 ppm × D) mm
- Reflectorless /Reflector sheet[5] . . . . . ±(3+2 ppm × D) mm

Measuring interval[6]
- Prism mode
  - Precise mode . . . . . 1.5 sec.
  - Normal mode . . . . . 0.8 sec.
- Reflectorless mode
  - Precise mode . . . . . 1.8 sec.
  - Normal mode . . . . . 1.0 sec.

Least count
- Precise mode . . . . . 1 mm (0.002 ft)
- Normal mode . . . . . 10 mm (0.02 ft)

Ambient temperature range . . . . . –30 °C to +50 °C (–22 °F to +122 °F)

Atmospheric correction
- Temperature range . . . . . –40 °C to +60 °C (–40 °F to +140 °F)
- Barometric pressure . . . . . 400 mmHg to 999 mmHg
  533 hPa to 1,332 hPa
  15.8 inHg to 39.3 inHg

Angle measurement
- Horizontal angle . . . . . Single
- Vertical angle . . . . . Single
- Minimum increment (Degree, Gon, MIL6400) . . . . . Degree: 1/5/10"
  Gon: 0.2/1/2 mgon
  MIL6400: 0.005/0.02/0.05 mil

DIN 18723 accuracy (horizontal and vertical) . . . . . 5"/1.5 mgon

Dust and water protection IP54

Tilt sensor
- Type . . . . . Single-axis
- Compensation range . . . . . ±3'
- Setting accuracy . . . . . 1"

Level vial
- Plate level vial . . . . . 30"/2 mm
- Circular level vial . . . . . 10'/2 mm

Optical plummet
- Magnification . . . . . 3×

Display . . . . . Graphic LCD (128 × 64 dot); Single side

Point memory . . . . . 10,000 records

Dimensions (W × D × H) . . . . . Approx. 168 mm × 173 mm × 347 mm
(6.6 in × 6.8 in × 13.7 in)

Weight (approx.)
- Main unit (with battery) . . . . . 4.96 kg (10.9 lb)
- Tribrach . . . . . 0.76 kg (1.7 lb)

On-board Ni-MH battery BC-65
- Operating time[7]
  approx. 8 hours(continuous distance/angle measurement)
  approx. 16 hours (distance/angle measurement every 30 seconds)
  approx. 30 hours (continuous angle measurement)
- Charging time
  - Full charge . . . . . 3 hours

CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval. Laser safety IEC 60825-1 am2:2001. Reflectorless mode: Class 3R. Laser Pointer : Class 3R Prism mode: Class 1

NOTICE TO OUR EUROPEAN UNION CUSTOMERS

For product recycling instructions and more information, please go to www.spectraprecision.com/ev.shtml.

Recycling in Europe:
To recycle Spectra Precision WEEE (Waste Electrical and Electronic Equipment products that run on electrical power), call +31 497 53 24 30, and ask for the "WEEE Associate". Or, mail a request for recycling instructions to: Spectra Precision, c/o Menlo Worldwide Logistics, Meerheide 45, 5521 DZ Eersel, NL.

1 White objects (Kodak Gray 90%) with high reflectivity. Measuring distance may vary depending on targets and measuring conditions.
2 Ordinary haze, visibility approx. 20 km/12.5 miles
3 No haze, visibility over 40 km/25 miles
4 ±(2+3 ppm × D) mm –20 °C to –10 °C, +40 °C to +50 °C (–4 °F to +14 °F, +104 °F to +122 °F)
5 ±(3+3 ppm × D) mm –20 °C to –10 °C, +40 °C to +50 °C (–4 °F to +14 °F, +104 °F to +122 °F)
6 Measuring time may vary depending on measuring distance and conditions. For the initial measurement, it may take a few more seconds.
7 Battery life specification at 25 °C (77 °F). Operation time may be shorter if battery is not new. Operation time may be shorter in low temperatures.

Specifications are subject to change without prior notice.

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