

# Spectra Precision FOCUS<sup>®</sup> DL-15 Digital Level

## Datasheet



## Affordable Technology

### Key Features

#### ■ Consistent Measurement Precision

- Electronic reading
- Eliminates reading and recording errors
- Reduces operator eye fatigue

#### ■ Measure and Record with a Single Key Press

- Fast, eliminates recording errors

#### ■ Onboard Measurement Software

- Measurement routines for common leveling tasks including height determination, calculation of elevations, height differences and Cut and Fill Stakeout

#### ■ Internal Data Storage and Easy Transfer

- 16 MB of internal memory
- Mini-USB data transfer

## FOCUS<sup>®</sup> DL-15 Digital Level

The Spectra Precision FOCUS DL-15 digital level is a new, very affordable, digital level delivering simplicity, ease-of-use and versatile onboard software to provide consistent precision, performance and productivity.

### FOCUS DL-15: Instantly Productive

The FOCUS DL-15 digital level provides consistent height measurement precision through electronic reading of a bar code staff to an accuracy of 1.5mm (0.005 ft.) per 1 km double leveling run. Featuring internal data storage and a distance measurement range of 100m (328 ft.), the Spectra Precision digital level is affordable, versatile, and easy to use, an ideal choice for value.

### Powerful Onboard Software Functions

- Easy to learn and use, instantly productive, the FOCUS DL-15 provides consistent measurement precision. It eliminates reading and recording errors and reduces operator eye fatigue.
- Use on a wide range and variety of tasks requiring precise height determination. It enables the user to initiate a measurement and record the data at the push of a button.
- The FOCUS DL-15 contains measurement routines for common leveling tasks including height determination, calculation of elevations, height differences and Cut and Fill Stakeout.
- Simple data transfer from the FOCUS DL-15 via USB cable.



# Spectra Precision FOCUS DL-15 Digital Level

## Performance

### Height

- Accuracy (DIN 18723, standard deviation height measuring per 1 km (3,280.84 ft) of double leveling)
  - Electronic Measurement: 1.5 mm (0.005 ft)
  - Optical Measurement: 2.0 mm (0.007 ft)

### Distance measurement

- Accuracy
  - Distance (D) ≤10 m (32.80 ft): 10 mm (0.033 ft)
  - Distance (D) >10 m (32.80 ft): D\*0.001 mm/ft
- Range
  - Electronic Measurement: 1.5 m–100 m (4.92 ft–328.08 ft)

### Electronic Measurement

- Resolution Height Measurement: 1 mm / 0.1 mm
- Resolution Distance Measurement: 0.01 m / 0.001 m
- Measurement time: 3 sec.

### Horizontal Circle

- Graduation: 360 degrees
- Graduation interval: 1 degree
- Estimation to: 0.1 degree

### Environmental

- Operating temperature: -20 °C to +50 °C (-4 °F to +122 °F)
- Dust and water proofing: IP54

## General Specifications

### Telescope

- Objective aperture: 45 mm (0.148 ft)
- Magnification: 32x
- Resolving power: 3"
- Field of view: 1°30'
- Stadia constant: 100

### Compensator

- Type: Magnetic damping
- Compensation range: ±12'
- Setting accuracy: ±0.3"
- Circular level sensitivity: 8'/2 mm

### Display

- Dot matrix LCD, 128 x 32 dpi with illumination

### Keyboard

- 16-key numeric including 4-way navigation arrows

### Onboard Programs

- Elevation / Height difference / Cut & Fill stakeout / Distance stakeout / Height measurement

### Data Storage

- Internal: 16 MB >100,000 points
- Point number: Increasing
- Interface: Mini-USB
- Dimensions (L x W x H): 230 mm x 150 mm x 210 mm (9.0 in x 5.9 in x 8.3 in)

### Weight

- Weight (including battery): 2.5 kg (5.5 lb)

### Power Supply

- Internal battery (x2): Rechargeable Ni-Mh, 4.8 V, 2100 mAh
- Operating time (x2 batteries): ~20 hours
- Charging time (per battery): ~5 hours

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