

## Features

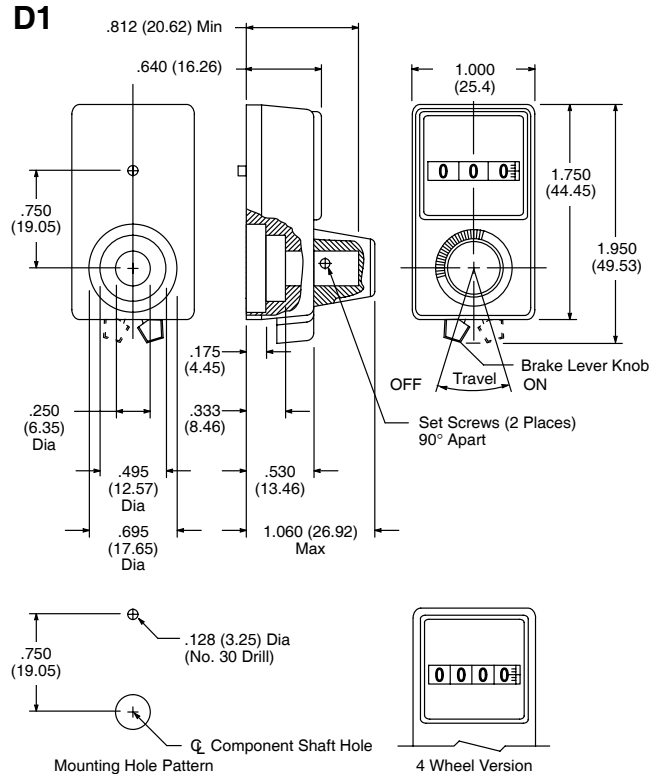
- 3 digit or 4 digit types
- 2 No. 4-40 hex socket set screws for mounting
- Brake lever knob
- Open window display
- Satin clear anodize finish



| Spectrol No. | NTE Part No. | Numeric Display | No. of Turns | Diag No. |
|--------------|--------------|-----------------|--------------|----------|
| 15-1-11      | 503-0001     | 3 Digit         | 10           | D1       |
| 15-2-11      | 503-0002     | 4 Digit         | 100          | D1       |

# Spectrol Model 15

**Dial – 1" x 1 3/4" rectangular, 1/4" dia shaft**



## Specifications

### Operation

**3 Digit (10 turn):** The left digit indicates the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 999.

**4 Digit (100 turn):** The left two digits indicate the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 9999.

**Minor Scale Division:** 1/500 turn

**Indication:** 0 to 9.99 turn (3 Digit), 0 to 99.99 (4 Digit)

**Accuracy:**  $\pm 0.2\%$  of knob position

**Rotation:** The indication shall increase with clockwise rotation.

**Transfer Point:** between 9.2 and 0

### Mechanical

**Shaft Bore:** 0.250"

**Runout:** 0.004 in/in (Note 1)

**Mounting:** The spring detented knob shall be removed using a straight pull, exposing two No. 4-40 hex socket set screws for mounting the dial directly to the component shaft (hex key included).

**Note 1.** Dial to be free running and without binds when axis of drive sleeve is perpendicular to mounting surface within the specified dimension.

## Features

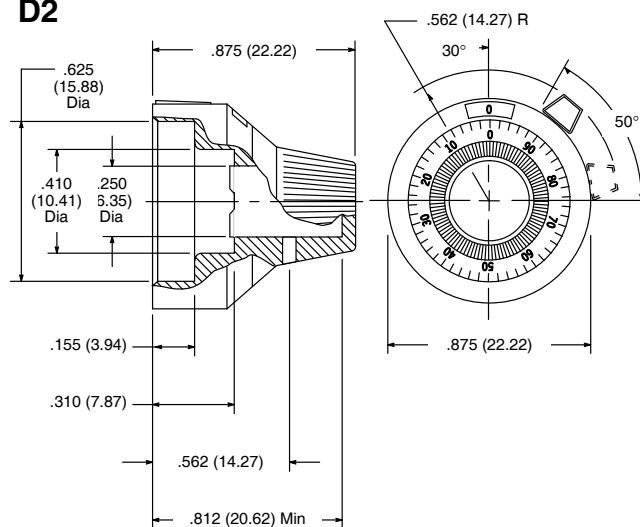
- Vernier Scale
- No. 2-56 Spline Socket Set Screw for Mounting
- Brake Lever Knob
- Open Window Display
- Available in Two Finish Types:  
Satin Chrome Finish, Black Markings (503-0004)  
Black Chrome Finish, White Markings (503-0005)



# Spectrol Model 16

Dial – 7/8" diameter, 1/4" dia shaft

## D2



Note: Mountin bracket may vry

## Specifications

### Operation

**Readout and Operation:** Unit shall register a total count of 15 turns. The number in the window (0 thru 14) indicates completed number of turns of the drive sleeve. Graduated circular dial indicates the percent of a partial turn of the drive sleeve.

**Minor Scale Division:** 1/50 turn

**Indication:** 0 to 14.99 turn

**Brake Lever:** 1st position (15° movement of brake lever) operates a high torque system for fine adjustment; 2nd position (15° additional movement of brake lever) actuates brake.

**Accuracy:** Backlash shall be zero between graduated dial and drive sleeve

**Rotation:** The indication shall increase with clockwise and decrease with a counterclockwise rotation.

**Transfer Point:** The number in the center of the window shall change as graduated dial rotates between 94 and 0.

### Mechanical

**Shaft Bore:** 0.250"

**Runout:** 0.004 in/in (Note 1)

**Mounting:** Install mounting bracket (included) between panel and panel nut. Multidial shall mount directly to shaft with No. 2-56 spline socket set screw, located adjacent to No. 50 on graduated dial (hex key included).

**Note 1.** Dial to be free running and without binds when axis of drive sleeve is perpendicular to mounting surface within the specified dimension.

NEW

| Spectrol No. | NTE Part No. | Numeric Display | No. of Turns | Diag No. |
|--------------|--------------|-----------------|--------------|----------|
| 16-1-11      | 503-0004     | Vernier Scale   | 15           | D2       |
| 16-1-21      | 503-0005     | Vernier Scale   | 15           | D2       |

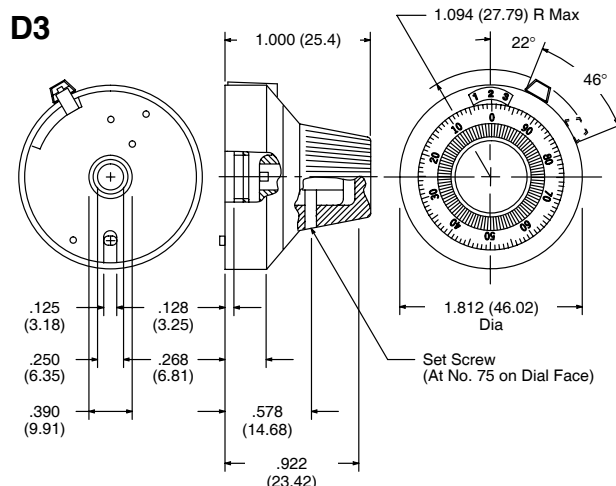
## Features

- Vernier scale
- No. 4-40 hex socket set screw for mounting
- Brake lever knob
- Open window display
- Satin chrome finish, black markings



# Spectrol Model 21

**Dial – 1 13/16" diameter, 1/4" dia shaft**



## Specifications

### Operation

**Readout and Operation:** Unit shall register a total count of 1499. The number in the center of the window (0 thru 14) indicates completed number of turns of the drive sleeve. Graduated circular dial indicates the percent of a partial turn of the drive sleeve.

**Minor Scale Division:** 1/100 turn

**Indication:** 0 to 14.99 turn

**Accuracy:** Backlash shall be zero between graduated dial and drive sleeve

**Rotation:** The indication shall increase with clockwise and decrease with a counterclockwise rotation.

**Transfer Point:** The number in the center of the window shall change as graduated dial rotates between 94 and 0.

### Mechanical

**Shaft Bore:** 0.250"

**Runout:** 0.004 in/in (Note 1)

**Mounting:** Unit shall mount directly to shaft with No. 4-40 hex socket set screw, located adjacent to No. 75 on graduated dial (hex key included).

**Note 1.** Dial to be free running and without binds when axis of drive sleeve is perpendicular to mounting surface within the specified dimension.

| Spectrol No. | NTE Part No. | Numeric Display | No. of Turns | Diag No. |
|--------------|--------------|-----------------|--------------|----------|
| 21-1-11      | 503-0006     | Vernier Scale   | 15           | D3       |

## Features

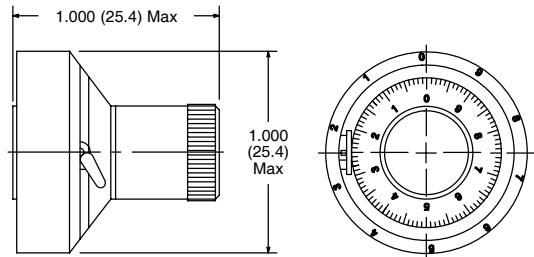
- Vernier scale
- Black anodized w/white markings or natural aluminum (clear) anodized w/black markings
- Available with or without brake lever



# KILO 400 Series

**Dial – 1" diameter, 1/4" dia shaft, aluminum**

**D4**



## Specifications

### Mechanical

1" Multi-turn dials feature easy to read primary and secondary scale, absolutely zero backlash because the index line and brake elements are secured to the panel without locating lugs and holes.

Requires only one square inch of panel space.

**Shaft Bore:** .0250"

**Shaft Extension Beyond Face of Panel:** .600" Min, .800 Max

**Bushing Extension Beyond Face of Panel:** .125" Min, .297" Max thread (full thread)

| KILO No. | NTE Part No. | Numeric Display | No. of Turns | Brake Lever | Finish | Diag No. |
|----------|--------------|-----------------|--------------|-------------|--------|----------|
| 411      | 505-0001     | Vernier         | 10           | No          | Black  | D4       |
| 412      | 505-0002     | Vernier         | 10           | Yes         | Black  | D4       |
| 461      | 505-0003     | Vernier         | 10           | No          | Clear  | D4       |
| 462      | 505-0004     | Vernier         | 10           | Yes         | Clear  | D4       |