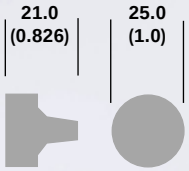
11/15/16/21

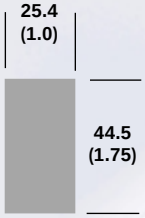
Precision Multidials



MODEL 11
Ordering Code

11 - 1 - 11

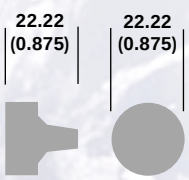
Basic Model	Shaft Diameter & Numerical Display	Finish & Other Features
11	1. 1/4" Shaft (standard) 2. 1/8" Shaft adapter	11. Satin chrome, black markings 21. Black chrome, white markings 31. Brushed chrome, black markings 41. Satin chrome, white markings



MODEL 15
Ordering Code

15 - 1 - 11

Basic Model	Shaft Diameter & Numerical Display	Bezel	Finish
15	1. 1/4" Dia. 3 digit 2. 1/8" Dia. 4 digit 3. 1/8" Dia. 3 digit 4. 1/8" Dia. 4 Digit	1. Open 2. Clear plastic window	1. Satin clear anodize 3. Black anodize white bezel trim 5. Black anodize



MODEL 16
Ordering Code

16 - 1 - 11

Basic Model	Shaft Diameter Accommodation & Fixings	Finish
16	1. 1/4" Dia. shaft - 1 set screw 2. 1/4" Dia. shaft - 2 set screws 3. 1/8" Dia. shaft - 1 set screw 4. 1/8" Dia. shaft - 2 set screws	11. Satin chrome, black markings (standard) 21. Black chrome, white markings 31. Brushed chrome, black markings 41. Satin chrome, white markings

MODEL 21
Ordering Code

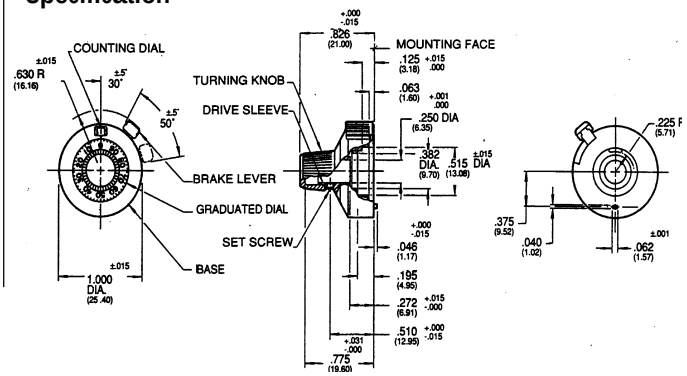
21 - 1 - 11

Basic Model	Shaft Diameter & Accommodation	Finish & Other Features
21	1. 1/4" Shaft (standard) 2. 1/8" Shaft adapter	11. Satin chrome, black markings 21. Black chrome, white markings 31. Brushed chrome, black markings

The part number consists of three groups of digits. The first is the **SPECTROL Model Number.** The second group describes the shaft diameter with which the dial is to be used. The third group describes the exterior finish, markings and other features.

MODEL 11

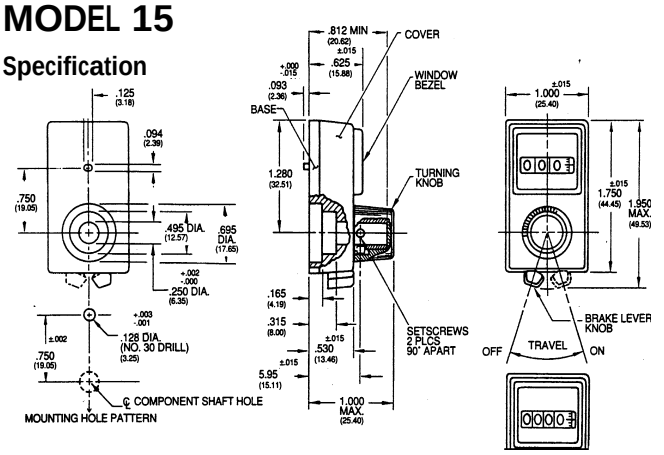
Specification



Indication	Single counter type wheel and a graduated circular dial registering a total count of 10 turns
Rotation	Increasing indication: CW direction Decreasing indication: CCW direction
Runout	Dial to be free running and without binds with axis of drive sleeve perpendicular or in any position within .004 per inch (0.10) out of perpendicular with the mounting face.
Operation	Single numeral in window (0 thru 10) indicates completed number of turns of the drive sleeve. Graduated circular dial indicates the percent of the partial turn of the drive sleeve.
Accuracy	Zero backlash between dial and the drive sleeve
Mounting	Directly to shaft with #2-56 spline socket set screw. Drive sleeve set screw on lower side of vertical centre line with a graduated circular dial reading of 0
Transfer Point	Between 97 and 0
Numeral Size	0.75 high (1,90) x 0.13 width (0,33) of line
Graduation Size	Numeral graduations .040 long (1,02), intermediate graduation .030 long (0,76), width graduations .010 (0,25)
Weight	0.7 oz. max. (19,84 gm)
Mounting Hardware	Lock washer, internal tooth, steel, nickel plated panel nut: brass, nickel plated

MODEL 15

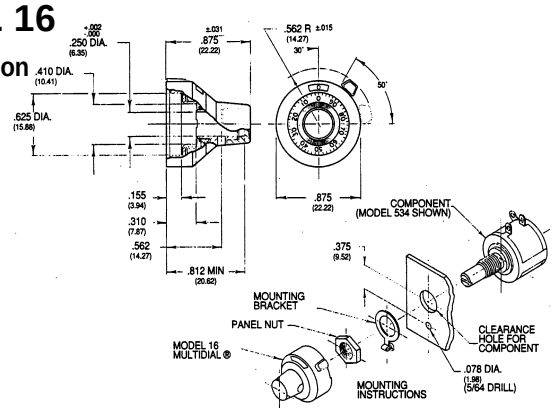
Specification



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
Operation 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.
Accuracy	Graduation lines adjacent to the numerals on the right digit wheel indicate settings of .2% of a revolution of the turning knob.
Rotation	The indication shall increase with clockwise rotation of the turning knob.
Numerals	The numerals shall be white on a black background and .130 high (3,30)
Phasing	The dial shall have the feature of being phased during the mounting operation by rotating the exposed component shaft to correspond with the desired reading on the dial prior to tightening the set screws.
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.
Weight	1.6 ounces (45.36 gm)

MODEL 16

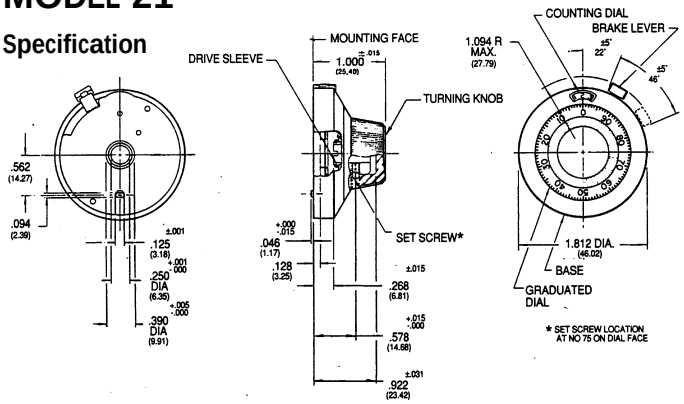
Specification



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.
Transfer Point	The number in centre of window shall change as graduated dial rotates between 95 and 0.
Rotation	Readout shall increase with clockwise and decrease with counterclockwise rotation.
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.
Mounting	Install mounting bracket between panel and panel nut. Multidial shall mount directly to shaft with No. 2-56 spline socket set screw, located adjjacent to No. 50 on graduated dial.
Numeral Size	.075 high
Graduation Size	Numeral graduations .045 long (1,14) intermediate graduations .030 long (0.76)
Weight	0.7 oz. max. (19,84) gm)

MODEL 21

Specification



Readout and Operation	Unit shall register a total count of 1499. 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.
Transfer Point	The number in centre of window shall change as graduated dial rotates between 94 and 0.
Rotation	Readout shall increase with clockwise and decrease with counterclockwise rotation.
Accuracy	Backlash shall be zero between graduated dial and drive sleeve.
Mounting	Unit shall mount directly to shaft with No. 4-40 hex socket set screw located adjacent to No. 75 on graduated dial.
Numeral Size	Counter wheel: .090 high x 013 (2,29 x 0,33) Graduated dial: .109 x .018 (2,77 x 0,46)
Graduation Size	Numeral and every fifth graduation .055 (1,40) long, intermediate graduations 035 long (0,89), width of graduation .012 (0,30)
Weight	3.0 oz. max. (85,05 gm)

Spectrol®

ISO 9001
FM 26189

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