

CVN & CVU  
DIGITAL READOUTS

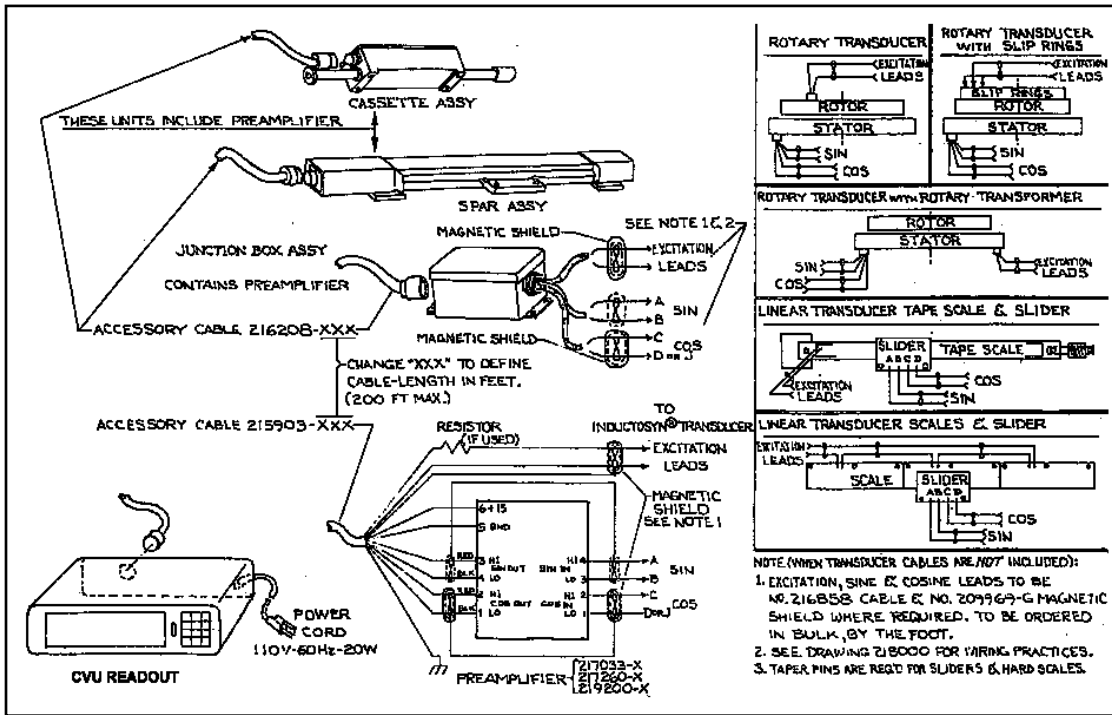
# Digital Readouts



**FARRAND CONTROLS**  
A DIVISION OF RUHLE COMPANIES, INC.

# CVU

## INDUCTOSYN® ANALOG TO DIGITAL CONVERTER



### TYPICAL OPERATION

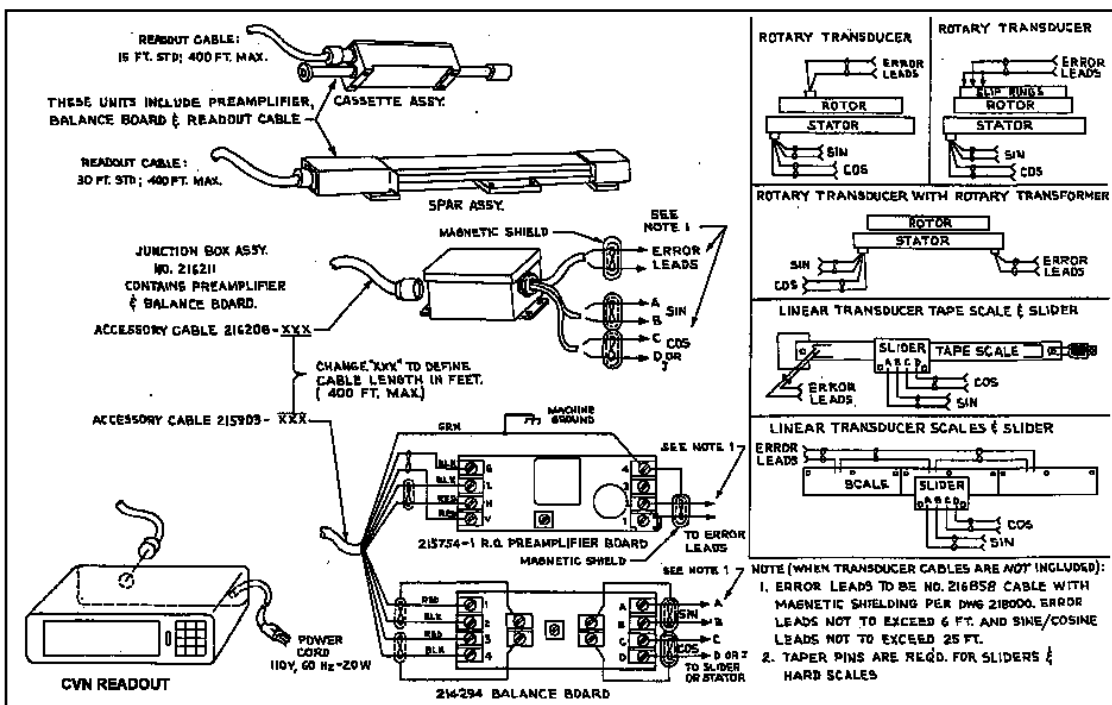
INDUCTOSYN® SCALE	CYCLE DIVISION	MAXIMUM SPEED* TYPE H
2 mm	2000	36 m/min
.2 in	2000	3600 in/min
.1 in	1000	3600 in/min
.1 in	2000	1800 in/min
2 deg.	2000	600 deg/sec (100 rpm)
(360 pole)	1 deg.	600 deg/sec (100 rpm)
(720 pole)	1 deg.	300 deg/sec (50 rpm)

Maximum speed with accuracy of  $\pm 3$  counts or better. Minimum speed is zero.

### CVU PERFORMANCE DATA

Accuracy	1:1000 T.I.R. ( $\pm 0.000050''$ with $0.1''$ INDUCTOYN® cycle)
Tracking Accuracy	$\pm 3$ counts at maximum rate
Tracking Rate	600,000 counts/sec max (3600 ipm at $.0001''$ resolution) Type H
Acceleration	$10^8$ counts/sec <sup>2</sup> max. (10,000 in/sec <sup>2</sup> at $.0001''$ resolution)
Ambient Temperature	50° to 120°F (10° to 47.5°C), full operation

# CVN



### CVN SPECIFICATIONS

**General design:** Single axis modular, completely self-contained, with integral power supply.

**Position transducers:** Linear and rotary INDUCTOSYN scales and spar assemblies.

**Digit capacity:** Inches, XXX.XXXX; Metric, XXXX.XXX; Rotary, \*XXX.XXX (From 000.000 to 359.999)

**Resolution:** Linear,  $.0001''$  and  $.001$  mm; Rotary,  $.001^\circ$

**Repeatability:** Linear,  $\pm 0.000020''/\pm 0.0005$  mm; Rotary,  $\pm 0.001^\circ$

**Maximum speed:** Linear, 2400 I.P.M. Rotary, 66.7 R.P.M.

**Electrical input:** 115/220 VAC  $\pm 20\%$ , 60Hz or 50Hz

**Dimensions & weight:** 3  $\frac{5}{8}''$  x 13  $\frac{1}{8}''$  x 13  $\frac{1}{2}''$  approx. 12  $\frac{1}{2}$  lbs.

**Case:**  $.090''$  aluminum, with wear-and corrosion-resistant epoxy coat.

**Axis labeling:** Snap-out plastic labels (C,X,Y,Z, etc.)

**Cable length:** Up to 200 feet between position transducer and console.

**Option:**  $.0005^\circ$  resolution in rotary model. TTL-compatible BCD outputs, either parallel or serial.