

MODEL 714AN QUADRATURE BI-DIRECTIONAL COUNTER



FEATURES

- **Optional 2 Limit set points**
- **Programmable decimal points**
- **Quadrature counting input:(X1, X2 or X4)**
- **Z Reference input**
- **Optional RS-232, RS-485, or Ethernet interface**
- **Optional analog out, 0-10 volts DC**
- **Front panel and remote inputs**
- **Programmable fractional input multiplier (0 to 5.9999)**
- **500Khz count rate**
- **All aluminum case size "A"**
- **6 digit .56" red alphanumeric LEDs**
- **I/O Screw Terminal connector**
- **Excitation Output 5VDC**
- **Through zero counting and indication**

Designed for the industrial environment the Model 714AN quadrature counter has many standard and optional features. In addition customized features are available to meet your unique requirements. The standard unit counts from a quadrature count sourced by an optical or magnetic encoder.

Differential or complementary input can be accomplished with option 11. A four digit fractional multiplier can be programmed via the front panel switches.

SPECIFICATIONS

Accuracy: ± 1 count

Temperature Range: -20° to +60° Celsius

Input Power: 115VAC, 50-400Hz 8 watts maximum
230VAC, 50-400Hz 8 watts max (optional)
5VDC @ 500mA maximum (optional)
9-18VDC @500mA maximum (optional)
18-36VDC @ 400mA maximum (optional)

Case size: "A" 2.5" H, 4.5" W, 5.3" D, 2.25"X4.36" cutout

Display: 6 digits .56" red, alphanumeric 14 segment LED's, 2 limit LED's, and 3 decimal points.

INPUTS

Remote start/stop/reset: Requires closure to logic common or TTL logic zero. Input loading 1LPTTL load. Stop signal overrides start. TTL and CMOS on-chip filtering. Maximum count rate 500Khz. Input loading 1LPTTL load.

Differential or complementary: option 11 accepts Differential or Complementary, inputs from the encoder.

Quadrature counting: User programmable for X1, X2 or X4

Z reference: For encoders with Z reference output on each revolution

OUTPUTS

Limit Relays: 2 Form "C" Relays rated at .25A at 28Volts

Excitation Output: 5VDC @ 150mA maximum

Interface: Optional addressable RS-232 or RS-485, with selectable baud rates of 2.4, 4.8, 9.6, 14.4, or 19.2K or Ethernet 10 Base-T/100 Base-TX

Analog Output: 0-10 VDC scalable, (Option 09) 12 BIT resolution, 4,096 counts 2.45mV or (Option 16) 16 BIT resolution, 65,536 counts 0.15mV and a maximum current of 5mA. The update rate is 600 times per second.

OPTIONS

- 01 RS-232 serial interface
- 02 RS-485 serial interface
- 03 Ethernet interface 10 Base-T/100 Base-TX
- 05 5Volt DC Input power @ 500mA maximum.
- 09 Analog output. 0-10 Volt DC scaleable (12 BIT)
- 10 2 set points with form C relay outputs
- 11 Differential or complementary input
- 12 9-18 Volt DC input power @ 500mA maximum.
- 16 Analog output. 0-10 Volt DC scaleable (16BIT)
- 18 Reset Switch only.
- 19 No front panel switches.
- 22 230 Volt AC 50-400hz 8watts maximum
- 24 18-36 Volt DC input power @ 400mA maximum.
- 25 Logo and/or nomenclature change. (special artwork)
- 26 No logo
- 28 Blank lens
- 36 "COUNTER" legend
- 37 "RPM" legend
- 38 "DEGREES" legend
- XXX = 3 digit # indicates custom software or hardware.

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