

MODEL 715AN QUADRATURE BI-DIRECTIONAL COUNTER WITH DEGREE READOUT



FEATURES

- Through zero counting and indication
- Optional 2 Limit set points
- Programmable range
- Quadrature counting input:(X1, X2 or X4)
- Optional RS-232 or RS-485 interface
- Optional analog out, (0-10 volts), 12 or 16 BIT
- Front panel and remote inputs for start, stop and reset
- 500Khz count rate
- All aluminum case size "A"
- 6 digit .56" red alphanumeric LEDs
- I/O Screw Terminal connector
- Excitation Output

Designed for the industrial environment the Model 715AN quadrature counter has many standard and optional features. The model 715AN accepts counts from an optical or shaft encoder, with a quadrature output, and displays the count in degrees.

In addition customized features are available to meet your unique requirements. The standard unit counts from a quadrature count source from an optical encoder. Differential or Complementary, inputs can be accomplished with option 04. Encoder output ranges can be selected via the front panel switches.

SPECIFICATIONS

Accuracy: ± 1 count

Temperature Range: -20° to $+60^{\circ}$ Celsius

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

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

FUNCTIONS

Accepts input from any of the sources listed below and displays Degrees in any one of the following

Formats:

Reading	Encoder Output
(359.59 Deg/Min)	5,400 / 10,800 / or 21,600 PPR.
(359.9 Deg)	900 / 1,800 / or 3,600 PPR.
(359.99 Deg)	9,000 / 18,000 / or 36,000 PPR.
(359.999 Deg)	90,000 /180,000 /or 360,000 PPR.

Display: 6 digits, .56", high-efficiency 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 100Khz. Input loading 1LPTTL load.

Differential or complementary: option 11 accepts Differential or Complementary, inputs.

Quadrature counting: User programmable for X1, X2 or X4

Z reference: (option -07) 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

Analog: 0-10 VDC scalable, 12 BIT resolution, 4,096 counts 2.45mV (Option 09) or 16 BIT resolution, 65,536 counts 0.15mV (Option 16) and a maximum current of 5mA

OPTIONS

- 01 RS-232 serial interface
 - 02 RS-485 serial interface
 - 05 5Volt DC Input power @ 500mA maximum.
 - 09 Analog output. 0-10 Volt DC scaleable
 - 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
 - 38 "DEGREES" legend
 - 39 "DEGREES/MIN" legend
 - XXX = 3 digit # indicates custom software or hardware
- 0312

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