

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, RS-485, or Ethernet interface
- Optional analog out, 0-10 volts DC
- Front panel and remote inputs
- 500Khz count rate
- All aluminum case size "A"
- 6 digit .56" red alphanumeric LEDs
- I/O Screw Terminal connector
- Excitation Output 5 VDC

Designed for the industrial environment the Model 715AN quadrature counter has many standard and optional features. In addition many customized features are available to meet your unique requirements. The standard unit counts from a quadrature count sourced by an optical or magnetic encoder, and displays the count in degrees. Differential or Complementary, inputs can be accomplished with option 11. Encoder output ranges can be selected via the front panel switches.

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.

SPECIFICATIONS

Accuracy: ± 1 count

Temperature Range: -20° to +60° 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, 4.5" W, 5.3" D, 2.25"X4.36" cutout
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 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
- 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

Design Concepts Inc

886 N Jan Mar Ct. Olathe, Kansas 66061
Phone 913.782.5672 Fax 913.782.5766
www.dcmeters.com