

# MODEL 716AN SSI ENCODER READOUT



## FEATURES

- **Optional 2 Limit set points**
- **Selectable bit length encoder interface**
- **Variable update rate**
- **Adjustable zero offset**
- **Programmable decimal points**
- **Optional RS-232, RS-485 or Ethernet interface**
- **Optional analog out, (0-10 volts) (4-20 mA)**
- **Programmable fractional input multiplier and divider (1 to 65535)**
- **All aluminum case size "A"**
- **6 digit .56" red alphanumeric LEDs**
- **I/O Screw Terminal connector**
- **Excitation Output 5VDC**
- **Through zero counting and indication**
- **Gray or Binary input formatting**
- **CW or CCW encoder direction**

Designed for the industrial environment the Model 716AN encoder readout has many standard and optional features. In addition, customized features are available to meet your unique requirements. The standard unit interfaces to a SSI output sourced from an absolute encoder. User programmable bit length and transmission rate are selectable options. A four digit fractional multiplier can be programmed via the front panel switches. Optionally the unit can be configured for a second SSI input from an absolute encoder and compared mathematically with the first input.

## SPECIFICATIONS

**Accuracy:**  $\pm 1$  count

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

**Input Power:** 115 VAC, 50-400 Hz 8 watts maximum  
230 VAC, 50-400 Hz 8 watts max (optional)  
5VDC @ 1A maximum (optional)  
9-18 VDC @ 1A maximum (optional)  
18-36 VDC @ 500 mA maximum (optional)

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

## INPUT

SSI Serial

## OUTPUTS

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

**Excitation Output:** 5VDC @ 150 mA 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  
Optional 10BASE-T/100BASE-TX Ethernet Interface

**Analog Output:** 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  
Update rate: 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 @ 1A maximum.
- 09 Analog output. 0-10 Volt DC scaleable (12 BIT)
- 10 2 set points with form C relay outputs
- 12 9-18 Volt DC input power @ 1A maximum.
- 14 Second SSI Input
- 16 Analog output. 0-10 Volt DC scaleable (16BIT)
- 19 No front panel switches.
- 22 230 Volt AC 50-400hz 8watts maximum
- 24 18-36 Volt DC input power @ 500mA maximum.
- 25 Logo and/or nomenclature change. (special artwork)
- 26 No logo
- 28 Blank lens
- 36 "COUNTER" legends
- 38 "DEGREES" legend
- XXX = 3 digit # indicates custom software or hardware.

# Design Concepts Inc

886 N Jan Mar Court, Olathe, Kansas 66061

[www.dcimeters.com](http://www.dcimeters.com)

Phone 913.782.5672 Fax 913.782.5766