

- ✓ Quadrature, Up-Down and Angle
- ✓ Gray/Binary Absolute Code Counter
- ✓ Parallel or Serial Inputs
- ✓ 4 Set Point Relay
- ✓ 6 Digit Display with Floating Point
- ✓ Fast Analog Outputs
- ✓ RS232 and RS485
- ✓ Last Reading Memory



INF8-C is keypad programmable counter for use as a quadrature counter, up-down counter, or angular counter. The instrument is designed for fast positioning applications in connection with digital encoders, magnetic pick-ups and absolute code resolvers.

In quadrature counting mode, the instrument can be used with linear or rotational resolvers. Counting direction is automatically determined by the momentary phase position of the encoder input pulses.

The up-down counting mode is designed for fast bi-directional counting applications with the pulses at one input and the direction determined by the logic signal at the second input.

The angular counter uses an incremental encoder at the input and counts quadrature pulses bidirectionally between 0 and 360°. The display can be configured for 1°, 0.1° or 0.01°, depending on the used encoder.

The operation mode for quadrature, up-down or angular counter is keypad selectable.

Last reading memory is automatically activated after each display change which remains unchanged for longer than 1 second. The display value remains stored also when the power is switched-off.

INCREMENTAL COUNTERS

Quadrature Counter: The counting direction is automatically defined by the phase position of input signals A and B.

Up-Down Counter: The input A is connected to the sensor pulses, the input B controls the counting direction up or down.

Angular Counter: The counting direction is selected automatically by the phase position of the input signals A and B. The display reads 0 ... 360°. The Zero pul from the encoder can be used for setting the display to zero.

ABSOLUTE COUNTERS

Absolute Code Counter Parallel is designed for **Gray or Binary Code** from resolvers with parallel outputs. Encoders with up to 14 bit parallel outputs can be connected directly. Single Turn or Multi Turn modes are available.

Absolute Code Counter Serial is designed for **Gray or Binary Code** from encoders with 9 to 32 bit of SSI, EnDat, RS485 or other serial outputs. Single Turn or Multi Turn modes are available and can be selected from the keyboard.

SPECIFICATIONS

Display

6 digit 14,7mm red ± 999999 with floating decimal point. At full capacity of 999999 with the decimal point behind the LSD switches the display into exponential view.

Communication Port

RS232 and RS485, 1 Start, 1 Stop, 8 bit, no parity, 300-19200 bd and address 00-31.

Analogue Output

-10V...+10V and 0/4-20mA 12 or 16 bit resolution, response time 1.8ms. The analogue outputs can be free assigned to any display value.

Scaling

6 digit multiplication with sign and decimal point and 6 digit division constants are free programmable.

Set Points SP1 ... SP4

Adjustable Set Points across the entire display range with 4 NPN open collector outputs 60V-100mA or 4 mechanical Relays 5A-230VAC.

User Lockout

Three levels of security lock the setpoint adjustments, menu and/or preset-reset function.

Excitation

5-24V DC - 40mA, adjustable.

Power

115/230VAC $\pm 10\%$, 50-60Hz, 8VA.
Option: 9-36VDC/6W.

Dimensions

1/8 DIN, 48x96x150mm (HxWxD).
Panel cut-out 45 x 93 mm.