

REFLEX VOLTAGE TO FREQUENCY CONVERTER

PRECISION OSCILLATOR
Part No. 12M03-146

SPECIFICATIONS

SUPPLY: 120VAC $\pm 10\%$ 50/60 Hz, Single Phase

AMBIENT TEMPERATURE: 0° to 40°C (32°–104°F)
50°C in Cabinet

INPUT: 0 to 10 volts DC positive or negative

OUTPUT: Pulses of 15V magnitude, 4 to 7 microseconds long. Maximum load of 150mA source; 50mA sink. Frequencies corresponding to 10V DC input: 6 Hz to 60 KHz with 12 ranges selected by a 12-position switch. Any given range has approximately 3 to 1 adjustment with OUTPUT TRIM potentiometer.

LINEARITY: Within 0.1% of full scale

DRIFT: 100 PPM per degree C maximum from 0° to 50°C

ADJUSTMENTS: Frequency Calibration, Range Select Switch

GENERAL DESCRIPTION

The MODEL 259 VOLTAGE TO FREQUENCY CONVERTER is a circuit that converts a DC input voltage to a train of pulses whose frequency is determined by the magnitude of the input voltage. A 12-position switch and trim potentiometer provide on-board scaling for maximum output frequencies from 6 Hz to 60K Hz.

It can be used as a precision oscillator to provide an adjustable frequency reference to digital drives, or for remote control or extended timing ranges on devices such as the FENNER Model 210 Solid State Motor Operated Potentiometer.

Advanced circuit design insures a high level of accuracy, noise immunity and reliability in industrial environments. A field-proven mounting arrangement provides reliable connection, but allows easy removal without disturbing permanent wiring. Front access and detailed technical manual makes installation and service easy.

The MODEL 259 VOLTAGE TO FREQUENCY CONVERTER can be used with other FENNER SERIES 200 CONTROL MODULES and POWER CONVERTERS for smooth, stepless control in many applications. It is compatible with equipment of other manufacturers.

STANDARD FEATURES

- Compact, Self-Contained
- Moderately Priced
- Wide Range of Adjustment
- Compatible with Packed Drives of Most Manufacturers
- Positive Front-Access Connection
- Easily Removed, Repaired or Replaced
- Conservatively Rated for Reliability
- Detailed Technical Manuals

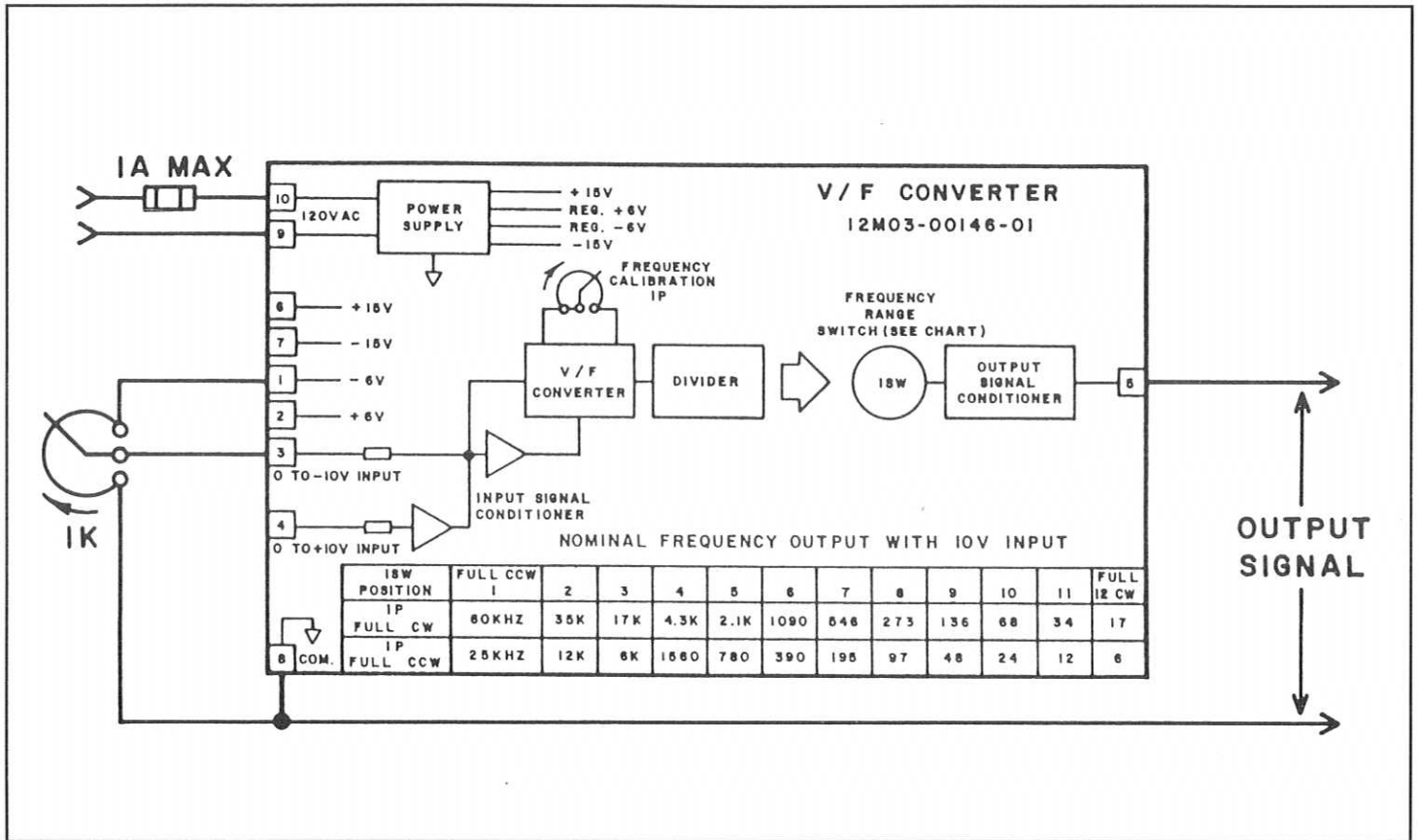
TYPICAL APPLICATIONS

- Adjustable Frequency Reference
- Remote Timing Adjustment

OPTIONS

- Use with FENNER Model 210 MOP for Remote or Extended Timing Adjustment
- Compatible with other Series 200 Controls (See Bulletin SB200)

VOLTAGE TO FREQUENCY CONVERTER



Fenner

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