

FREQUENCY TO CURRENT/ VOLTAGE CONVERTER ————— FVI 50



- Full scale ranges from 100 hz to 50000 hz
- Unipolar or bipolar inputs
- Current or voltage output
- Input/output/supply mutually isolated
- 0.1% accuracy
- Din rail/wall mounting enclosure

FVI 50 converts a variety of unipolar (DC) or bipolar (AC) pulsed inputs into an isolated voltage or current output.

SPECIFICATIONS

INPUT

Input ranges
Input type / characteristics
Minimum pulse width
Input impedance
Input type selection
Unipolar excitation supply

See Table 1
 See Table 3
 15 microseconds
 50 kilo ohms
 Internal DIP switch
 5 V DC through 15 K pullup resistor for contact closure or open collector transistor switching input

OUTPUT

Output ranges
Load resistance effect (mA outputs only)
Protection

See Table 2
 < 0.005% of output span per 100 ohm change
 Against open/short circuit

ACCURACY

Transfer accuracy
Temperature coefficient of accuracy

± 0.1% of span over 1~100% of range
 ± 0.01 % of span per °C

ADJUSTMENT

Front panel adjustments

Multiturn potentiometers for output ZERO & SPAN

POWER

Power supply

a) 24 V DC ±10 %, OR
 b) 85~265 V AC, 50 hz

ENVIRONMENTAL

Operating ambient temperature
Relative humidity

0 to 60 °C
 0 to 95% RH, non condensing

ISOLATION

Mutual isolation (Input/Output/Supply)

a) 250 V AC RMS continuous
 b) 1000 V AC RMS/1 minute

MECHANICAL

Case
Dimensions (in mm)
Mounting

Molded plastic, grey
 72 (H) x 75 (W) x 112 (D)
 Span on for 35 mm DIN rail to DIN 46277
 Screw terminals, suitable for 2.5 mm conductors

Terminals

TABLE 1

RANGE FULL SCALE (HZ)

Std	Special
100	250
250	500
500	1000
1000	2500
2500	5000
5000	10000
10000	25000
25000	50000

TABLE 2

Output	Load
0~20 mA	0~500
4~20 mA	0~500
0-1 V	> 1K
0-10 V	> 10K
1-5 V	> 5K

TABLE 3

	INPUT TYPE	
	Unipolar	Bipolar
Nominal Threshold	1.7 V	0 V
Minimum Amplitude	2 V	± 25 mV
Maximum Amplitude	150 V	± 150 V
Hysteresis	25 mV	± 25 mV

radix

Radix Electrosystems Pvt Ltd
 B-14, 2nd Floor, Ghanshyam Indl Estate
 Veera Desai Road, Andheri (West)
 Mumbai - 400 053, India
 Tel : + 91 22 26730101 Fax : + 91 22 26731891
 Email : sales@radix.co.in www.radix.co.in
 Exports Email : exports@radix.co.in

BANGALORE Telefax : 51159354/53
 BARODA Telefax : 2491749
 CHENNAI Tel : 28293345, Fax : 28290341
 HYDERABAD Tel : 27898403/27818386, Fax : 27819327
 NEW DELHI Tel : 25786350, Fax : 2576 2094
 PUNE Tel : 24479759, Fax : 24482796