



# WIDE RANGE FREQUENCY TRANSDUCER MODEL FTA

## FEATURES

- Provides analog output which is proportional to the input frequency.

## APPLICATIONS

- For use on any application that requires measurement over a wide frequency range.



INPUT FREQUENCY	
RANGE (Hz)	DESIGNATION
0 - 10	001
0 - 55	005
0 - 65	004
0 - 100	002
0 - 425	006
0 - 1000	003

INPUT VOLTAGE	
RANGE (V)	DESIGNATION
1 - 10	01
5 - 50	02
10 - 100	03
80 - 150	04
150 - 300	05
300 - 600	06

STANDARD OUTPUTS MODEL FTA-				
0 - 1mA	0 - 10Vdc	4 - 20mA	0 - 20mA	0 - 5Vdc
ADD SUFFIX "B" TO PART NUMBER	ADD SUFFIX "D" TO PART NUMBER	ADD SUFFIX "E" TO PART NUMBER	ADD SUFFIX "E1" TO PART NUMBER	ADD SUFFIX "X5" TO PART NUMBER

All standard models require 85 - 135Vac instrument power.  
Optional 220Vac instrument power - Add suffix "- 22"  
**ADDITIONAL FREQUENCY AND VOLTAGE RANGES AVAILABLE - CONSULT FACTORY**

**ORDERING INFORMATION**  
Example: 0 - 100 Hz., 10 - 100V input,  
0 - 5Vdc output proportional to 0 - 100 Hz.  
**FTA-002-03X5**

## MODEL FTA SPECIFICATIONS

### INPUT

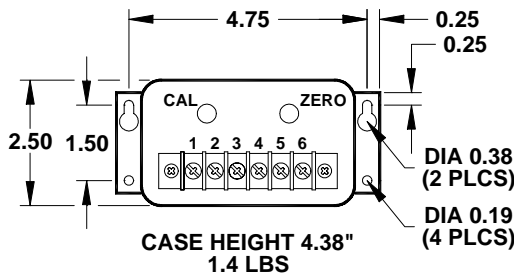
FREQUENCY RANGE: See table  
VOLTAGE RANGE: See table  
AC WAVEFORMS: Sine, square, or triangle  
OVERLOAD: 2 times rated, or a max. of 700V  
IMPEDANCE (ohms): Greater than 500K  
ISOLATION (Input/Output/Case): 700VAC/1000V PK  
(Inst. power to Input/Output/Case): 1500Vac  
INSTRUMENT POWER (std.): 85 - 135Vac,  
50 - 400 Hz, 3.5VA.

### OUTPUT

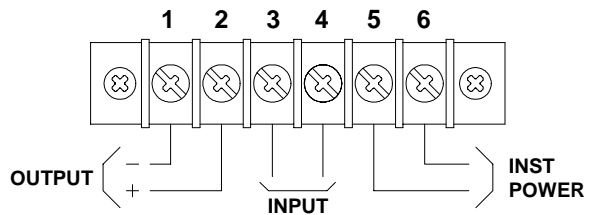
**ACCURACY: ±0.5% of span**  
OUTPUT RIPPLE: ±1.0% F.S.  
OUTPUT LOADING (ohms):  
0 - 1mA: 0 - 10K  
0 - 10Vdc, 0 - 5Vdc: 2K minimum  
4 - 20mA, 0 - 20mA: 0 - 500  
RESPONSE TIME:  
0 - 10 Hz.: 1.0 Second  
0 - 100 Hz.: 400 milliseconds  
0 - 1000 Hz.: 200 milliseconds  
TEMP. EFFECT (-20°C to +60°C): ±0.005%/°C

FREQUENCY & POWER FACTOR

## CASE DIMENSIONS



## CONNECTION DIAGRAMS



AC

All dimensions in inches.