

- ACCURACY OF 0.05%
- MICRO-PROCESSOR BASED
- 5 Hz to 100 KHz RANGE
- 5-DIGIT LED DISPLAY
- 2 SET POINTS
- 3-YEAR WARRANTY



The FTI-1 frequency transducer accurately converts frequency input signals into dc current output format.

The FTI-1 transducer measures frequency spans from as low as 10 Hz, up to 100 KHz.

The input ac signal is filtered, shaped and optically coupled to the processing section.

The processor's crystal clock, synchronized with the measured frequency pulse stream, assures overall accuracy of the output and the units thermal stability performance.

The FTI-1 is equipped with two reed relays providing two frequency set-points. These can be ordered for any desired combinations, such as dead-bands, turn on or off delays etc.

A 5-digit, seven segment LED display provides local indication of various physical units, such as frequency, velocity, RPM etc.

For in-range frequencies, the FTI-1 produces the current loop output and displays the measured frequency. For out-of-range frequencies, the output current is limited to 3.85 or 20.5mA.

The unit is housed in a low profile, polycarbonate plastic enclosure, mounted on a standard DIN rail.

SPECIFICATIONS

FTI-1

INPUT: Ac signals and pulses

INPUT LEVELS: 250 mV to 380 Vac (factory set)

ISOLATION: 2500 Vdc or peak ac

OUTPUT:

4 - 20 mA standard

Option: Any combination between 0 - 20 mA

MAXIMUM LOOP LOAD:

675Ω (625Ω for supply - 10%)

FREQUENCY RANGE: 5 Hz to 100 KHz

FREQUENCY SPANS: 10 Hz to full range

ACCURACY (Including linearity): < ±0.05% of span

RESPONSE TIME: 140 msec typical (300 msec maximum)

LOCAL READOUT: 5-digit green LEDs

READOUT RANGES:

5 Hz to 99.999 KHz

Below 5 Hz: 0.00

Above 99,999.5 Hz: Blinking 99999

SET-POINTS: Two, pre-programmed

RELAY OUTPUT: Two Reed relays

TRIP DELAY TIME: 300 msec. maximum

CONTACTS RATING:

10 Watt maximum

(maximum voltage 200V

maximum current 0.5A)

SUPPLY:

115/230 ±10% Vac, 50 - 60 Hz (factory set)

THERMAL STABILITY: ±0.0075%/1°K of span

OPERATING TEMPERATURE: -10 to +60°C

STORAGE TEMPERATURE: -30 to +85°C

HUMIDITY: 5 - 95% relative, non condensed

ENCLOSURE: Plastic Polycarbonate

PROTECTION LEVEL:

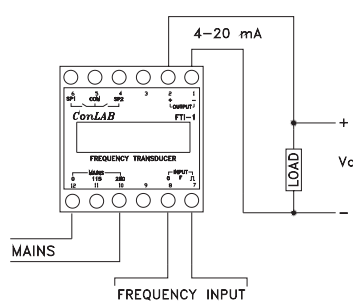
Box: According to IP-40 DIN 40050

Terminals: According to IP-20 DIN 40050

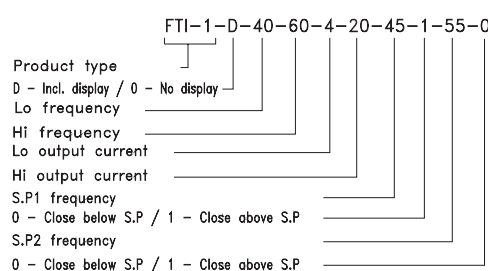
MOUNTING: Standard 35 mm DIN rail

WEIGHT: 0.45 Kg

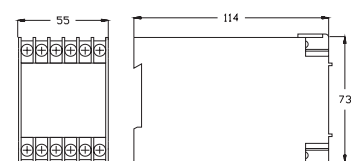
Connection Diagram



Ordering Information



Dimensions (mm)



data subject to change without notice

20, Hamezuda st. P.O.Box 100. Azor 58190, Israel. Tel +972-3-556-7688 Fax +972-3-556-9540

ConLAB
Control Laboratories Ltd.

Rev 8/95