

## CI-420 series Electronic Frequency to Analog Converters

The CI-420 series are rail mounting micro-processor based control instruments for frequency to analog conversion. They are fully user programmable and will adapt directly to any TM-44 turbine, COVOL output, or equivalent pulse generating output transducers.

### Applications

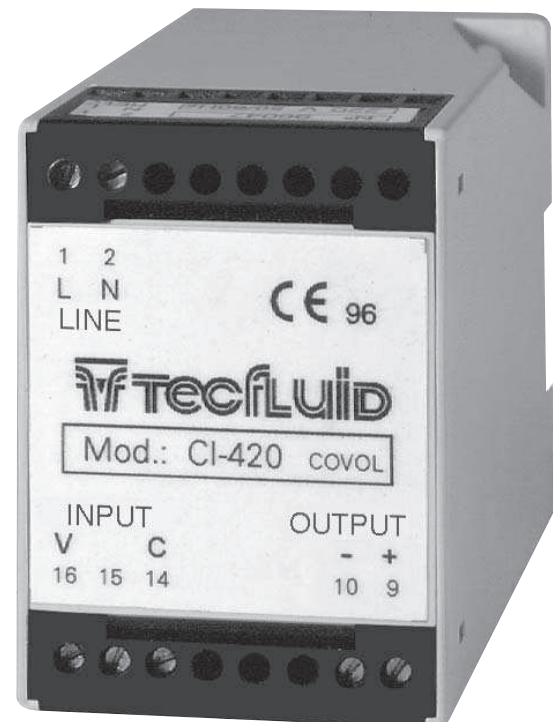
- Automated process control in any industry with flow rate or volume control for interfacing with PLC and other instruments.
- Interface with PLC inputs.
- Interface with analog indicators or alarms.

### Benefits

- Very simple to use, just select frequency for full scale output.
- Direct interface to Turbines, Covol etc.
- Fully programmable by user.
- No batteries needed, BCD switch programming.
- Standard DIN rail mounting.
- Connections with screw terminals for easy installation and maintenance.
- 0-20 mA, 4-20 mA, 0-10 V, 0-5 V, 2-10 V or 1-5 V output options.
- Also available 0-24 mA option.
- Adaptive filter for stable output.
- 12 or 16 bit resolution on analog output.

### Technical Data

- Power supply 110, 220, 240, 24 V ac 50-60 Hz  
24 V dc
- Power consumption < 1 VA
- Precision 0.2 % Full Scale
- Temperature range -10°C..... 60°C
- Frequency range 0.1.....9999 Hz for full scale
- Cutout frequency 0.04 Hz
- Input signal TM-44 20 mV...3 V ac, 0....2000 Hz
- Input signal COVOL Reed contact, 0.... 100 Hz
- Consult Tecfluid for other inputs





## Ordering information

CI-420/ a / b / vvv

### a = Output signal

- = A 0 - 20 mA
- = B 4 - 20 mA
- = C 0 - 24 mA
- = D 0 - 5 V dc
- = E 0 - 10 V dc
- = F 1 - 5 V dc
- = G 2 - 10 V dc

### b = Input Type

- = 1 COVOL
- = 2 Turbine Pick-up
- = 3 TTL
- = 4 for 24 volt proximity detectors
- = 5 for 5 volt pulse generators or open collector

### vvv = Power supply voltage

- = 110 110 V ac 50-60 Hz
- = 220 220-240 V ac 50-60 Hz
- = 024 24 V ac 50-60 Hz
- = 24d 24 V dc

Tecfluid designs and manufactures measuring instruments for liquids and gases, employing the most advanced technologies.

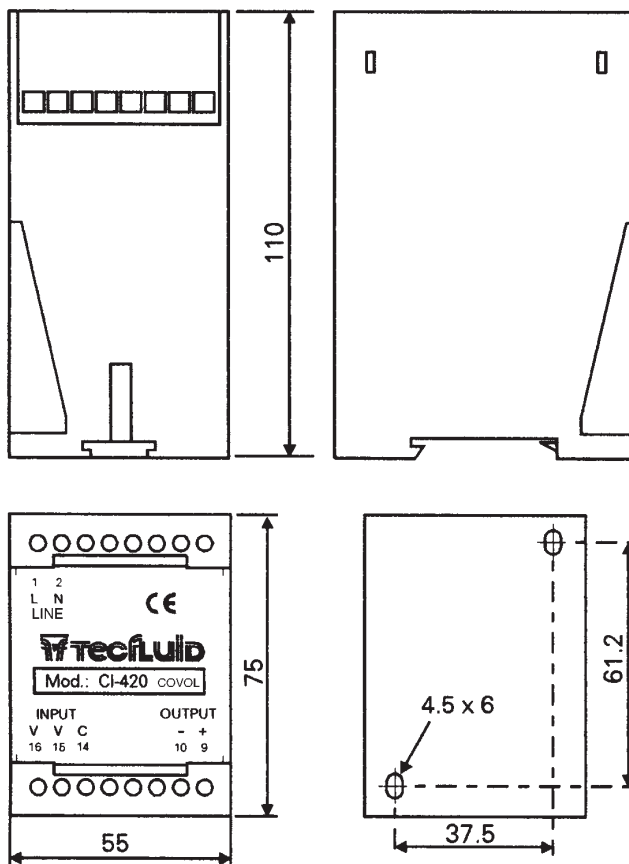
## Flowmeters

- Tapered metering tube in Borosilicate glass
- Tapered metering tube in transparent plastic
- Variable area with metal metering tube and indication by magnetic transmission
- Target disc with indication by magnetic transmission
- Orifice plate with by-pass flowmeter
- Electromagnetic flowmeters
- Vortec

## Counters

- COVOL (rotating piston volumetric counter)
- TM-44 (turbine type flowmeter)

## Dimensions



## Levels

- Limit switches
- Level indicators
- Level transmitters with analog output (4-20 mA etc.)

## Electronic Equipment

- APTM44 - Pulse amplifiers
- MC-01 - Programable flow indicators with batching
- MT-02 - Programable counters for batching
- CI420 - Programable frequency to analog output converters (4-20 mA etc.)
- DFD - Programable frequency dividers



We are at your service, please consult us.  
TECFLUID develops and manufactures instruments for gases and liquids, using the most advanced techniques.  
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