

## CMCP700S-CVT

Case Vibration and Temperature Transmitter, Dual 4-20mA Outputs



### Features:

- Three Outputs
- 4-20mA Output for Vibration
- 4-20mA Output for Temperature
- Buffered Sensor Output Signal (AC Signal)
- Selectable Low Pass Filter
- Selectable Acceleration or Velocity Output
- Selectable Full-Scale Range
- Selectable English or Metric Units
- Din Rail Mountable

### Typical Applications

The CMCP700S-CVT is a dual parameter signal conditioner used in conjunction with dual output accelerometers, such as STI's CMCP700T Series. The CMCP700S-CVT provides power to the sensor, conditions the signal to either velocity or acceleration and produces two 4-20mA outputs which can then be connected to a PLC, DCS or SCADA system.

### Technical Performance

Vibration Input:	100mV/g IEPE Accelerometer
Temperature Input:	10mV/°C Solid State Temperature Sensor
Signal Conditioning:	User Selectable (Acceleration or Velocity)
Low Pass Filters:	Selectable (1kHz or 10kHz)
High Pass Filter:	10Hz
Accuracy:	1% of Full Scale
Output 1 (Vibration):	4-20mA Proportional to Full Scale Range Selected
Acceleration Ranges:	5, 10, 20 or 40g's RMS
Velocity Ranges:	0.5, 1.5, 2.0 or 4.0 in/sec (12.5, 25, 50 or 100mm/sec) RMS
Output 2 (Temperature):	0-150°C (32 to 302°F)
Output 3 (AC Buffered Output):	Same as Input Signal (i.e 100mV/g)
Units:	English or Metric (User Selectable)
Protection:	Reverse Polarity and Transient Interference Protected

### Electrical

Power Requirement:	+18 to 30Vdc (+24V Nominal)
Current:	35mA Max
Sensor Power:	4.4mA Constant Current
OK Indication:	Bi-Color LED (Green = OK; Red = Fault)

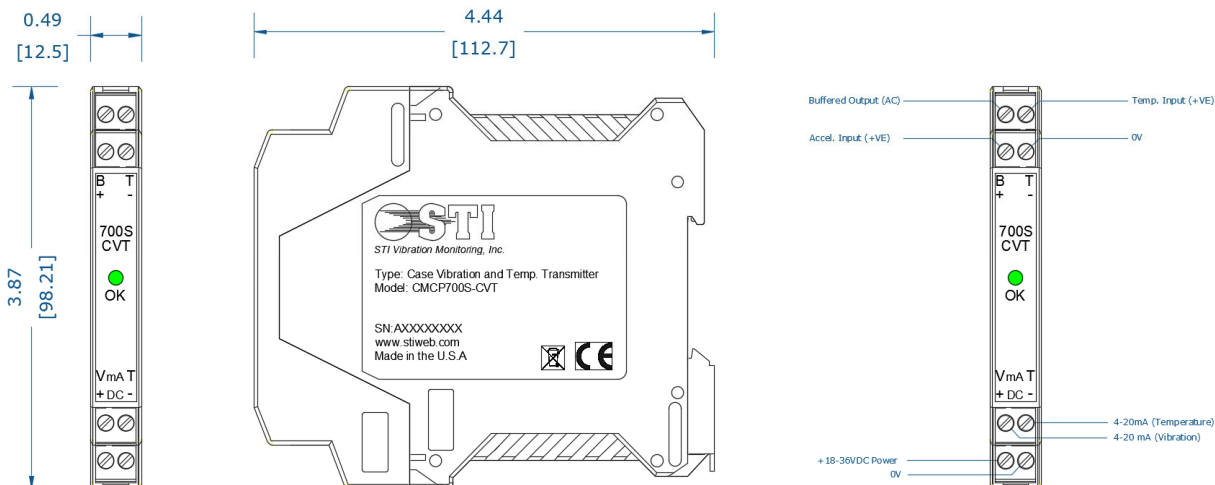
### Environmental

Operating Temperature Range:	-4 to 176°F (-20 to 80°C)
Storage Temperature Range:	-40 to 203°F (-40 to 95°C)
Humidity:	0-95% Non-Condensing
Certifications:	CE, RoHS3

### Mechanical

Case Material:	Polycarbonate
Mounting:	Din Rail
Terminals:	Screw Terminals
Weight:	3.0 Ounces (85g)

## Dimensions and Wiring



## Ordering Information:

CMCP700S-CVT Case Vibration and Temperature Transmitter

## Recommended Sensors

CMCP786T General Purpose Dual Output Accelerometer, Top Entry  
 CMCP785T General Purpose Dual Output Accelerometer, Side Entry  
 CMCP1100T Low Cost Dual Output Accelerometer

## Similar Products:



**CMCP700S-CV**  
 Case Vibration Transmitter  
 (Accelerometer, Velocity Sensor Input)



**CMCP700S-RV**  
 Radial Vibration Transmitter  
 (Proximity Probe Input)



**CMCP700S-DC**  
 DC or Thrust Position Transmitter  
 (Proximity Probe or DC Signal Input)