

CM-TV Velocity Output Transducer

4-20mA Velocity Output - Top Exit

Features

Low cost on-line means of monitoring with the capability of interfacing direct into PLC, BMS or any 4-20mA input module.
Proven use in vibration monitoring for offline applications using commercially available data collectors.

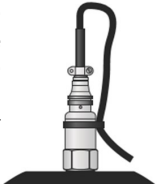
Protecting

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.



Technical Performance		Mechanical Performance	
Measurement Range (Vibration):	See: "How To Order" Table	Case Material:	304 Stainless Steel
Frequency Response:	See: "How To Order" Table	Sensing Element/Construction:	Ceramic Shear
Broadband Resolution:	0.005 IPS Peak	Mounting Torque (Stud):	3 to 5 ft-lb (4 to 7 N-m)
Non--Linearity:	± 1%	Weight:	4.7 oz (131 gm)
		Mounting threads:	See: "How To Order" Table
Electrical		Environmental	
Excitation Voltage:	12 to 30 VDC	Temperature Range:	-40°F to 185°F (-40 to 85°C)
Load Resistance:	50 (Vs-12) Ω	Sealing:	Welded Hermetic
Settling Time:	<15 sec		
Electrical Isolation (Case):	>10 ⁸ Ω		
Electrical Isolation:	Case		

1. Current will fluctuate at frequencies below 5 Hz	Wiring	Accel	Accel Gnd	Accel Analog	Temp	Temp Gnd	Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)
2. Broadband Resolution 0.01 IPS Peak for 0-2.0 IPS RMS & Peak	2 Pin Mil-C-5015	Pin A	Pin B	N/A	N/A	N/A	
3. Other mounting options available	3 Pin Mil-C-5015	Pin A	Pin B	Pin C	N/A	N/A	
4. Calibration Certificate NIST-Traceable	4 Pin Bayonet	Pin A	Pin B	N/A	Pin C	Pin C	
	Integral Cable	Red	Black	N/A	White	Green	



How To Order

Product Prefix		Product Series		Code	Model	Code	Stud Mounting Threads	Code	Cable Length (10 ft Increments)
CM	Case Mounted	T	Vibration Transmitter	50	Top Exit	A	1/4-28UNF Male	010	10 ft.
						B	M6 x 1 mm Male	020	20 ft.
								030	30 ft.
								XXX	Length Specified in ft. ≥40 ft (12.2 mts)

Code	Output	Code	Velocity Range	Frequency Range (±10 %)	Code	Cable/Connector	Code	Options
VV ^[1]	Velocity	05R	0-0.5 IPS RMS	180 CPM to 60,000 CPM (3 Hz to 1KHz)	52	2 Pin MIL-C-5015	(Blank)	No Options
VR ^[2]	Velocity & Raw Vib.	10R	0-1.0 IPS RMS	180 CPM to 60,000 CPM (3 Hz to 1KHz)	53	3 Pin MIL-C-5015	/EX	Intrinsically Safe
VT ^[3]	Velocity & Temp.	20R	0-2.0 IPS RMS	180 CPM to 60,000 CPM (3 Hz to 1KHz)	54	4 Pin Bayonet	/HT	High Temperature 4 to 257 °F (-40 to 125 °C)
		05P	0-0.5 IPS Peak	180 CPM to 60,000 CPM (3 Hz to 1KHz)	01	Polyurethane-Jacketed Cable		
		10P	0-1.0 IPS Peak	180 CPM to 60,000 CPM (3 Hz to 1KHz)	02	Polyurethane-Jacketed w/ Armor Cable		
		20P	0-2.0 IPS Peak	180 CPM to 60,000 CPM (3 Hz to 1KHz)				

VT Option Version

Temp. Output Range:
-40 to 257 °F (-40 to 125 °C)

Note:
[1] Connector 52 : 2 Pin MIL-C-5015.
[2] Connector 53 : 3 Pin MIL-C-5015.
[3] Connector 54 : 4 Pin Bayonet.



SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com



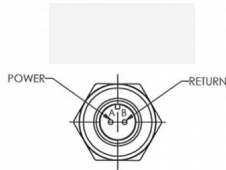
CM-G General Purpose Accelerometer

4-20mA Velocity Output - Top Exit With Connector

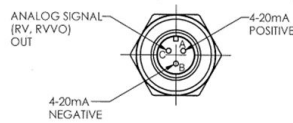
OUTLINE DRAWING MODEL CM-T50 Velocity Output Transducer



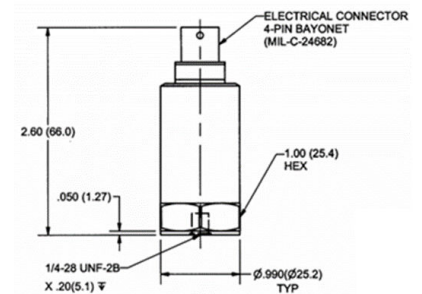
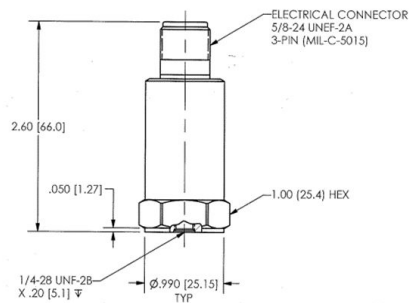
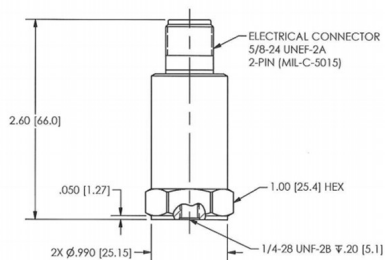
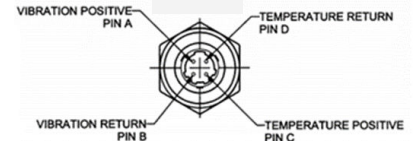
TOP VIEW OF CONNECTOR
2-PIN (MIL-C-5015)



TOP VIEW OF CONNECTOR
3-PIN (MIL-C-5015)



TOP VIEW OF CONNECTOR
4 PIN—BAYONET



Option: EX , Hazardous Area Approval

DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

EEx ia IIC T4, -40°C ≤ T_a ≤ 80°C, II 1 G

EEx nL IIC T4, -40°C ≤ T_a ≤ 80°C, II 3 G

DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4

Contact factory for specific approvals.



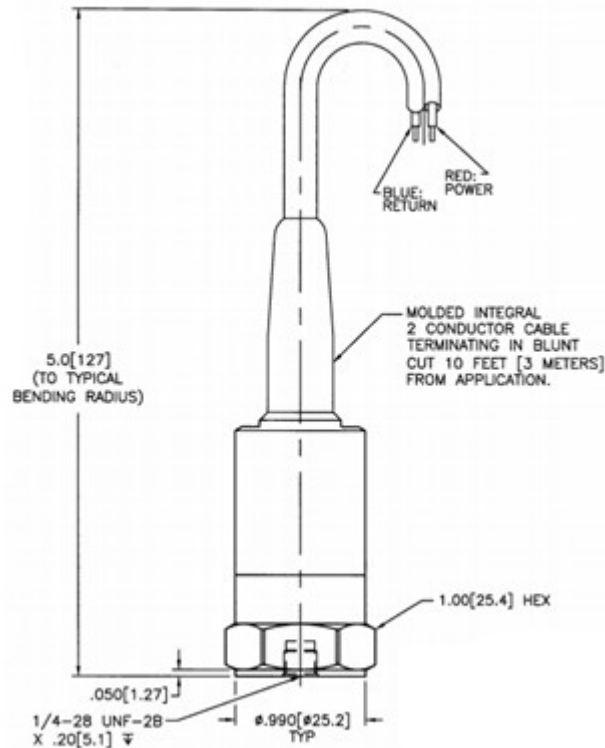
SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com



CM-TV Velocity Output Transducer

4-20mA Velocity Output - Top Exit With Integral Polyurethane Cable

OUTLINE DRAWING MODEL CM-T50 Velocity Output Transducer



Option: EX , Hazardous Area Approval

DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

EEx ia IIC T4, -40°C ≤ T_a ≤ 80°C, II 1 G

EEx nL IIC T4, -40°C ≤ T_a ≤ 80°C, II 3 G

DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4

Contact factory for specific approvals.



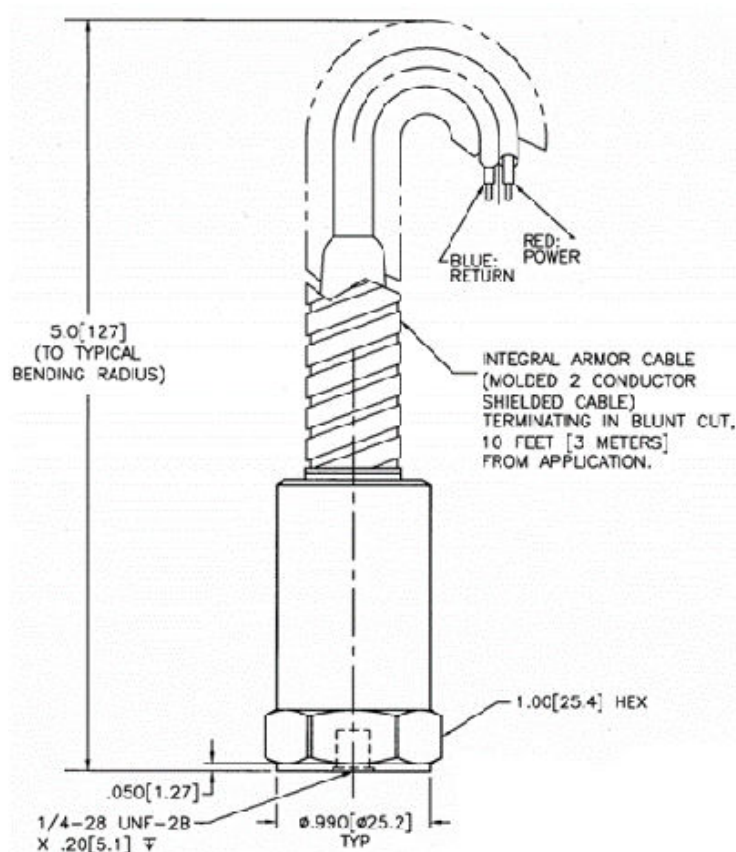
SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com



CM-TV Velocity Output Transducer

4-20mA Velocity Output - Top Exit With Integral Armor Cable

OUTLINE DRAWING MODEL CM-T50 Velocity Output Transducer



Option: EX , Hazardous Area Approval

DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

EEx ia IIC T4, -40°C≤Tas80°C, II 1 G

EEx nL IIC T4, -40°C≤Tas80°C, II 3 G

DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4

Contact factory for specific approvals.



SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com

