

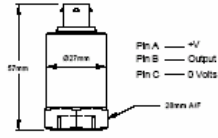
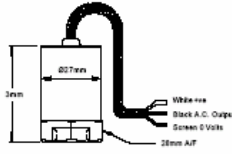
# Vibration Sensors 4-20mA Range

Part	TUI- 1185	TUI-1185C	TUI- 1186	TUI- 1186C	TUI-1187	TUI-1187C
<b>Description</b>	4-20mA Velocity Transducer for PLC Interface	4-20mA Velocity Transducer for PLC Interface	Dual Output Accelerometer for PLC Interface & Data Collection	Dual Output Accelerometer for PLC Interface & Data Collection	4-20mA Output Accelerometer for PLC Interface	4-20mA Output Accelerometer for PLC Interface
<b>Measurement Type</b>	VELOCITY	VELOCITY	VELOCITY ACCELERATION (AC OUTPUT)	VELOCITY ACCELERATION (AC OUTPUT)	ACCELERATION	ACCELERATION
<b>Current Output</b>	4-20mA DC proportional to RMS velocity (mm/sec)	4-20mA DC proportional to RMS velocity (mm/sec)	4-20mA DC proportional to RMS velocity (mm/sec)	4-20mA DC proportional to RMS velocity (mm/sec)	4-20mA DC proportional to RMS acceleration (g rms)	4-20mA DC proportional to RMS acceleration (g rms)
<b>AC Output</b>	N/A	N/A	AC voltage proportional to acceleration	AC voltage proportional to acceleration		
<b>Measurement Range</b>	See Table A	See Table A	See Table A	See Table A	See Table A	See Table A
<b>Frequency Response</b>	2 Hz to 1kHz $\pm$ 10%	2 Hz to 1kHz $\pm$ 10%	2 Hz to 1kHz $\pm$ 10% for Velocity output -3dB @ 0.8 Hz for AC output	2 Hz to 1kHz $\pm$ 10% for Velocity output -3dB @ 0.8 Hz for AC output	2 Hz to 1kHz $\pm$ 10%	2 Hz to 1kHz $\pm$ 10%
<b>Dynamic Range</b>	50 g peak	50 g peak	30g peak for 100mV/g 60g peak for 50mV/g	30g peak for 100mV/g 60g peak for 50mV/g	50g Peak	50g Peak
<b>Mounted Resonance</b>	5 kHz min	5 kHz min	5 kHz min	5 kHz min	5 kHz min	5 kHz min
<b>Bias Voltage (AC Output)</b>			3 Volts	3 Volts	N/A	N/A
<b>Isolation</b>	Base Isolated	Base Isolated	Base Isolated	Base Isolated	Base Isolated	Base Isolated
<b>Operating Temp Range</b>	-25 to 90°C	-25 to 90°C	-25 to 90°C	-25 to 90°C	-25 to 90°C	-25 to 90°C
<b>Temperature Sensitivity</b>	0.08%/°C	0.08%/°C	0.08%/°C	0.08%/°C	0.08%/°C	0.08%/°C
<b>Transverse Sensitivity</b>	Less than 5%	Less than 5%	Less than 5%	Less than 5%	Less than 5%	Less than 5%
<b>Supply Voltage Range</b>	12-32 Volts DC (for 4-20mA)	12-32 Volts DC (for 4-20mA)	12-32 Volts DC (for 4-20mA)	12-32 Volts DC (for 4-20mA)	12-32 Volts DC (for 4-20mA)	12-32 Volts DC (for 4-20mA)
<b>Standard Cable</b>	N/A	5m Integral S/S over braided PTFE	N/A	5m Integral S/S over braided PTFE	N/A	N/A
<b>Case Material</b>	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
<b>Weight</b>	140gms (nominal)	150gms (nominal)	150gms (nominal)	150gms (nominal)	150gms (nominal)	150gms (nominal)
<b>Sealing</b>	IP67	IP67	IP67	IP67	IP67	IP67
<b>Mounting Torque</b>	8 Nm	8 Nm	8 Nm	8 Nm	8 Nm	8 Nm
<b>Options</b>	Ranges, Filters, mounting threads, mating cable assemblies, high temperatures	Side Exit, IS Models, High Temperature, Ranges, Connector				

Mounting Options: Quick fit Female, ¼" UNF Female

Ranges Available: 0-10mm/sec, 0-20mm/sec, 0-25mm/sec, 0-50mm/sec, and 0-100mm/sec

# Vibration Sensors 4-20mA Range

Part	TUI- 1188	TUI-1188C				
						
Description	Dual Output Accelerometer for PLC Interface & Data Collection	Dual Output Accelerometer for PLC Interface & Data Collection				
Measurement Type	ACCELERATION ACCELERATION (AC OUTPUT)	ACCELERATION ACCELERATION (AC OUTPUT)				
Current Output	4-20mA DC proportional to RMS acceleration (g's)	4-20mA DC proportional to RMS acceleration (g's)				
AC Output	AC voltage proportional to acceleration (g)	AC voltage proportional to acceleration (g)				
Measurement Range	See Table A	See Table A				
Frequency Response	2 Hz to 1kHz $\pm$ 10% -3dB @ 0.8 Hz for AC output	2 Hz to 1kHz $\pm$ 10% -3dB @ 0.8 Hz for AC output				
Dynamic Range	30g peak for 100mV/g 60g peak for 50mV/g	30g peak for 100mV/g 60g peak for 50mV/g				
Mounted Resonance	5 kHz min	5 kHz min				
Bias Voltage (AC Output)	3 Volts	3 Volts				
Isolation	Base Isolated	Base Isolated				
Operating Temp Range	-25 to 90°C	-25 to 90°C				
Temperature Sensitivity	0.08%/°C	0.08%/°C				
Transverse Sensitivity	Less than 5%	Less than 5%				
Supply Voltage Range	12-32 Volts DC (for 4-20mA)	12-32 Volts DC (for 4-20mA)				
Standard Cable	N/A	5m Integral S/S over braided PTFE				
Case Material	Stainless Steel	Stainless Steel				
Weight	150gms (nominal)	150gms (nominal)				
Sealing	IP67	IP67				
Mounting Torque	8 Nm	8 Nm				
Options	Ranges, Filters, mounting threads, mating cable assemblies, high temperatures	Ranges, Filters, mounting threads, mating cable assemblies, high temperatures				

Mounting Options: Quick fit Female, ¼" UNF Female  
 Ranges Available: 0-10mm/sec, 0-20mm/sec, 0-25mm/sec, 0-50mm/sec, and 0-100mm/sec