

Model Number
655A91

4-20 MA VELOCITY TRANSMITTER

Revision: NR
ECN #: 53239

Performance

	ENGLISH	SI	
Measurement Range(± 5 %)	0.0 to 1 in/sec pk	0.0 to 25.4 mm/s pk	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1,000 Hz	[2]
Frequency Range(± 3 dB)	210 to 120,000 cpm	3.5 to 2,000 Hz	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Repeatability	± 2 %	± 2 %	

Environmental

Temperature Range	-40 to 221 °F	-40 to 105 °C	
Enclosure Rating	IP68	IP68	
Vibration Limit	250 g pk	2,452.5 m/s ² pk	[3]
Shock Limit	2,500 g pk	24,525 m/s ² pk	[3]

Electrical

Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Load Resistance	50 (Vs-10) Ohms	50 (Vs-10) Ohms	
Settling Time	30 sec	30 sec	[4]
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	

Physical

Size (Hex x Height x Diameter)	15/16 in x 2.20 in x 1.0 in	15/16 in x 55.8 mm x 25.4 mm	
Weight	4.2 oz	120 gm	
Mounting Thread	1/4-28 UNF	No Metric Equivalent	
Mounting Torque	2.0 ft-lb	2.71 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	4-Pin, M12	4-Pin, M12	
Electrical Connection Position	Top	Top	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] Conversion Factor 1 in/sec = 0.0254 m/sec.
- [2] 1Hz = 60 cpm (cycles per minute).
- [3] Conversion Factor 1g = 9.81 m/s².
- [4] Typical.
- [5] See PCB Declaration of Conformance PS235 for Details

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
 Model ICS-51 NIST Traceable single-point amplitude response calibration at 0 excitation and one at 6,000 cpm (100Hz) for 4-20 mA output vibration sensor (1)
 Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)



All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.

Entered: ND	Engineer: gs	Sales: JL	Approved: BAM	Spec Number:
Date: 12/08/2022	Date: 12/08/2022	Date: 12/08/2022	Date: 12/08/2022	77097



Phone: 800-959-4464
 Fax: 716-684-3823
 E-Mail: imi@pcb.com