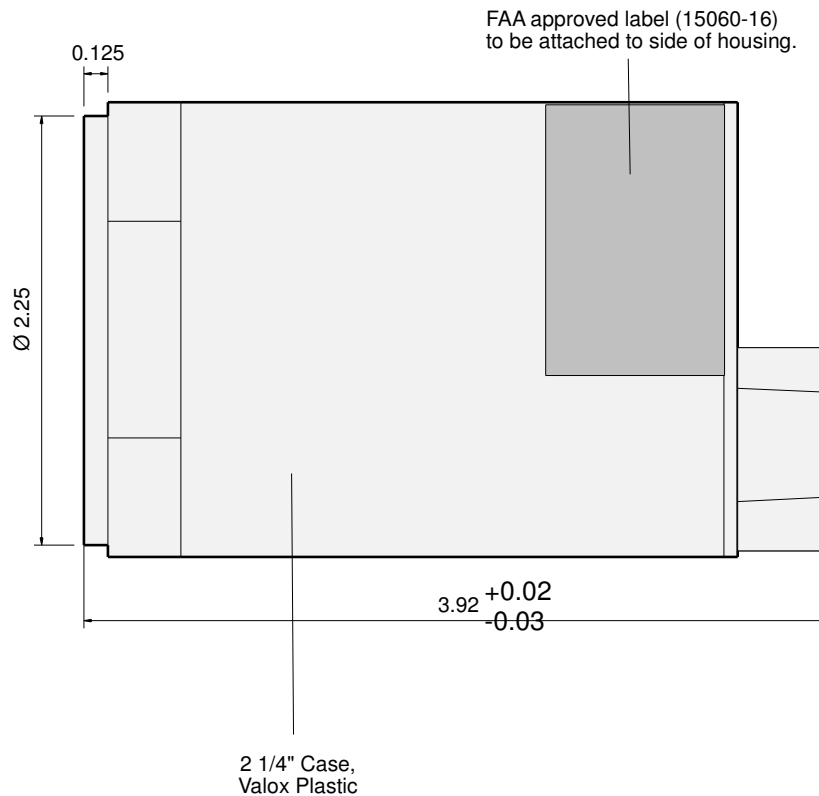
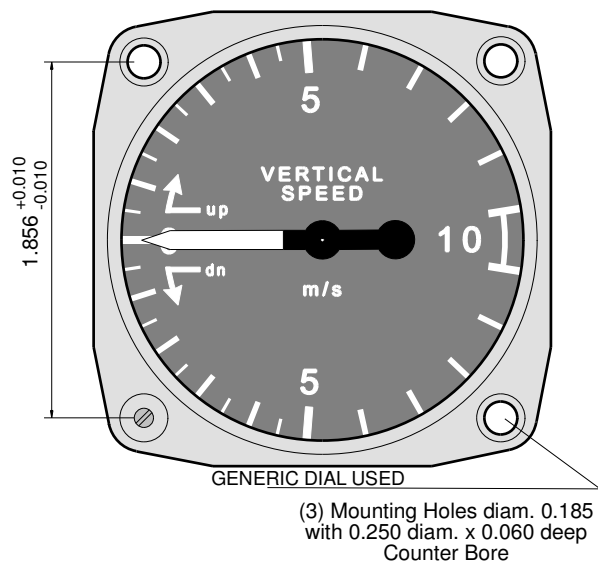
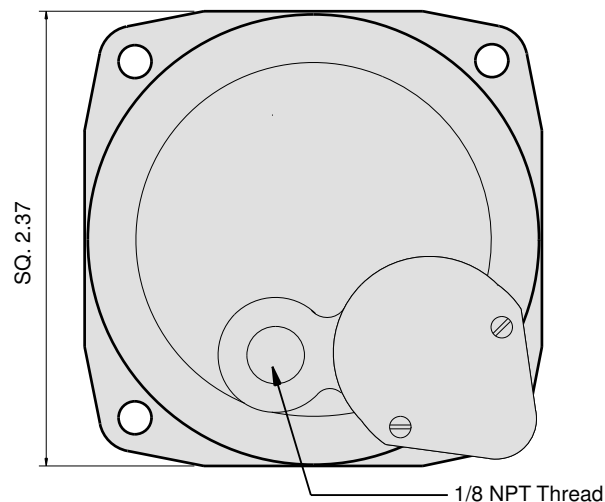




Specification Drawing

						TOLERANCES EXCEPT AS NOTED	UMA Inc, 260 Main St. Dayton, VA 22821			
							SCALE	N/A	MATERIAL	DRAW BY
							DATE	07.20.09		M.H.
							DESCRIPTION			
2025011	D	Corrected weight from 6.2 to 7.4	BM	04/04/2025	ShM	.XX	±0.03	2 1/4" TSO VERTICAL SPEED INDICATOR		
2023020	C	Added FAA label	BM	05/18/23	CRL	.XXX	±0.01	1 of 2		
2021001	B	Added correct number of brackets.	ShM	08/16/21	ND					
2019018	A	Corrected overall length and hole locations	REM	09/17/19	ShM					
ECO	REV	DESCRIPTION	DR	DATE	APP	ANGULAR	APP	PART#	T8-21[]-[] [] [] []	
								REV	D	

Part# T8-21[]-[][][]	File: specT8-21[]-[][][].RevD.wks	UMA Inc., 260 Main Street, Dayton VA 22821	Sheet: 2 of 2
Description: TSO'd 2 1/4" Vertical Speed Indicator			

<u>SPECIFICATIONS</u> Meets: TSO C-8e specifications Instrument Type: Direct reading, self-contained, pressure actuated vertical velocity instrument with manual zeroing. Tolerances: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Rate Ft/Min.</th> <th style="text-align: left; border-bottom: 1px solid black;">Scale Error</th> </tr> <tr><td style="text-align: center;">500</td><td style="text-align: center;">100 ft/min.</td></tr> <tr><td style="text-align: center;">1000</td><td style="text-align: center;">200 ft/min.</td></tr> <tr><td style="text-align: center;">2000</td><td style="text-align: center;">300 ft/min.</td></tr> <tr><td style="text-align: center;">3000</td><td style="text-align: center;">300 ft/min.</td></tr> <tr><td style="text-align: center;">4000</td><td style="text-align: center;">400 ft/min.</td></tr> <tr><td style="text-align: center;">5000</td><td style="text-align: center;">500 ft/min.</td></tr> </table> Friction Error: The difference of any two readings before and after vibration shall not exceed 100 ft/min. Case Leak Test: Apply 10 InHg of pressure to static port . Leak shall not exceed 0.05 InHg in one minute. Weight: 7.4 oz.	Rate Ft/Min.	Scale Error	500	100 ft/min.	1000	200 ft/min.	2000	300 ft/min.	3000	300 ft/min.	4000	400 ft/min.	5000	500 ft/min.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">RANGES</th></tr> <tr> <th style="text-align: center;">PART#</th><th style="text-align: center;">RANGE</th><th style="text-align: center;">Dial Markings</th></tr> <tr><td style="text-align: center;">T8-210-20</td><td style="text-align: center;">0-2000 FT/Min</td><td style="text-align: center;">B&W / Vertical Speed</td></tr> <tr><td style="text-align: center;">T8-210-30</td><td style="text-align: center;">0-3000 FT/Min</td><td style="text-align: center;">B&W / Vertical Speed</td></tr> <tr><td style="text-align: center;">T8-210-32</td><td style="text-align: center;">0-3000 FT/Min</td><td style="text-align: center;">B&W / Climb</td></tr> <tr><td style="text-align: center;">T8-210-34</td><td style="text-align: center;">0-3000 FT/Min</td><td style="text-align: center;">B&W / Cabin Climb</td></tr> <tr><td style="text-align: center;">T8-210-40</td><td style="text-align: center;">0-4000 FT/Min</td><td style="text-align: center;">B&W / Vertical Speed</td></tr> <tr><td style="text-align: center;">T8-210-42</td><td style="text-align: center;">0-4000 FT/Min</td><td style="text-align: center;">B&W / Climb</td></tr> <tr><td style="text-align: center;">T8-210-43</td><td style="text-align: center;">0-4000 FT/Min</td><td style="text-align: center;">B&W / Rate of Change</td></tr> <tr><td style="text-align: center;">T8-210-44</td><td style="text-align: center;">0-4000 FT/Min</td><td style="text-align: center;">B&W / Cabin Climb</td></tr> <tr><td style="text-align: center;">T8-210-60</td><td style="text-align: center;">0-6000 FT/Min</td><td style="text-align: center;">B&W / Vertical Speed</td></tr> <tr><td style="text-align: center;">T8-210-62</td><td style="text-align: center;">0-6000 FT/Min</td><td style="text-align: center;">B&W / Climb</td></tr> <tr><td style="text-align: center;">T8-210-63</td><td style="text-align: center;">0-6000 FT/Min</td><td style="text-align: center;">B&W / Rate of Change</td></tr> <tr><td style="text-align: center;">T8-210-64</td><td style="text-align: center;">0-6000 FT/Min</td><td style="text-align: center;">B&W / Cabin Climb</td></tr> <tr><td style="text-align: center;">T8-211-10</td><td style="text-align: center;">0-10 Mtr/Sec</td><td style="text-align: center;">B&W</td></tr> <tr><td style="text-align: center;">T8-21[]-[][]W</td><td style="text-align: center;">any above</td><td style="text-align: center;">"W" suffix optional internal lighting</td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> </table>	RANGES			PART#	RANGE	Dial Markings	T8-210-20	0-2000 FT/Min	B&W / Vertical Speed	T8-210-30	0-3000 FT/Min	B&W / Vertical Speed	T8-210-32	0-3000 FT/Min	B&W / Climb	T8-210-34	0-3000 FT/Min	B&W / Cabin Climb	T8-210-40	0-4000 FT/Min	B&W / Vertical Speed	T8-210-42	0-4000 FT/Min	B&W / Climb	T8-210-43	0-4000 FT/Min	B&W / Rate of Change	T8-210-44	0-4000 FT/Min	B&W / Cabin Climb	T8-210-60	0-6000 FT/Min	B&W / Vertical Speed	T8-210-62	0-6000 FT/Min	B&W / Climb	T8-210-63	0-6000 FT/Min	B&W / Rate of Change	T8-210-64	0-6000 FT/Min	B&W / Cabin Climb	T8-211-10	0-10 Mtr/Sec	B&W	T8-21[]-[][]W	any above	"W" suffix optional internal lighting			
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