

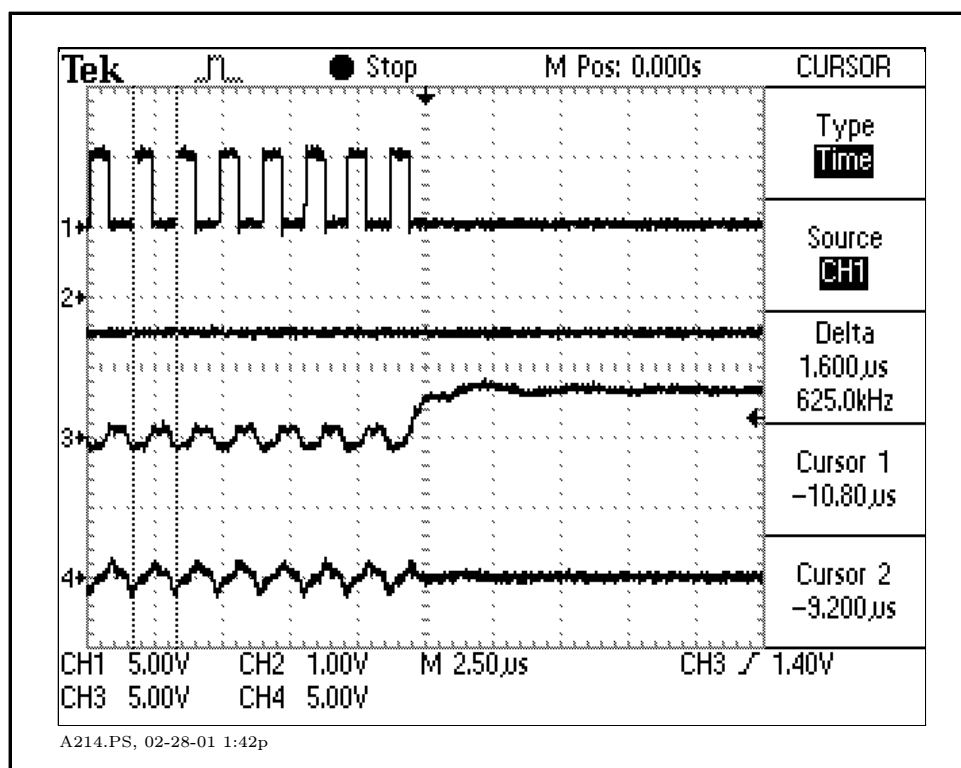


Figure 1. AD2078 noise after going through a MAX491E

Trace	Use
1	Same data as trace 3 after going through a MAX491E.
2	Data line from AD-2050 matrix.
3	AD-2078/02 $T+$, $T-$ signal line.
4	AD-2078/02 $R+$, $R-$ signal line.

¹\$Header: d:/TXB-S422/RCS/pictsad.tex,v 1.4 2001-10-17 11:56:05-07 Hamilton Exp Hamilton \$

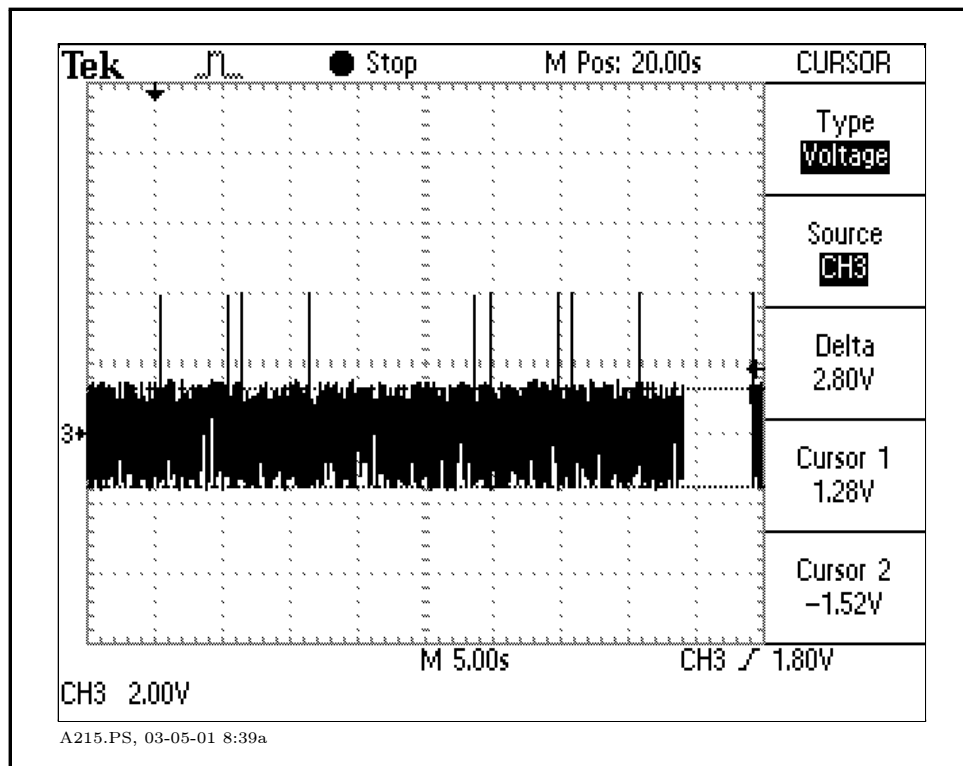


Figure 2. AD2078 noise with no termination

Trace	Use
3	AD-2078/02 $T+$, $T-$ signal line.

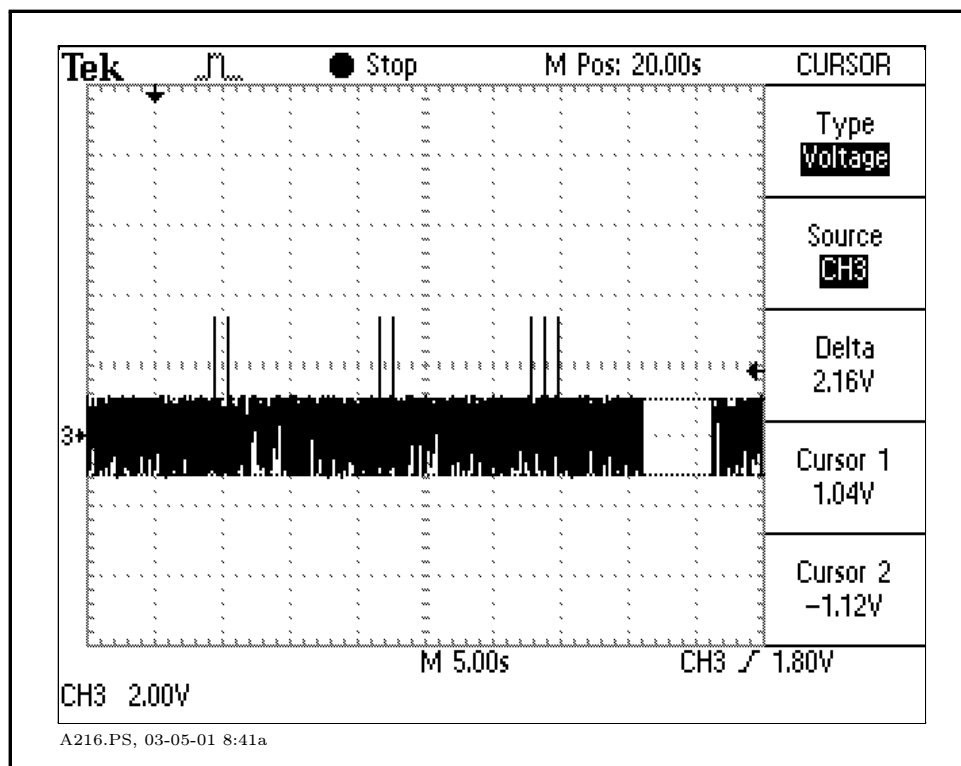


Figure 3. AD2078 noise with a 120Ω termination

Trace	Use
3	AD-2078/02 $T+$, $T-$ signal line.

Trace	Use
3	AD-2078/02 T_+ , T_- signal line.

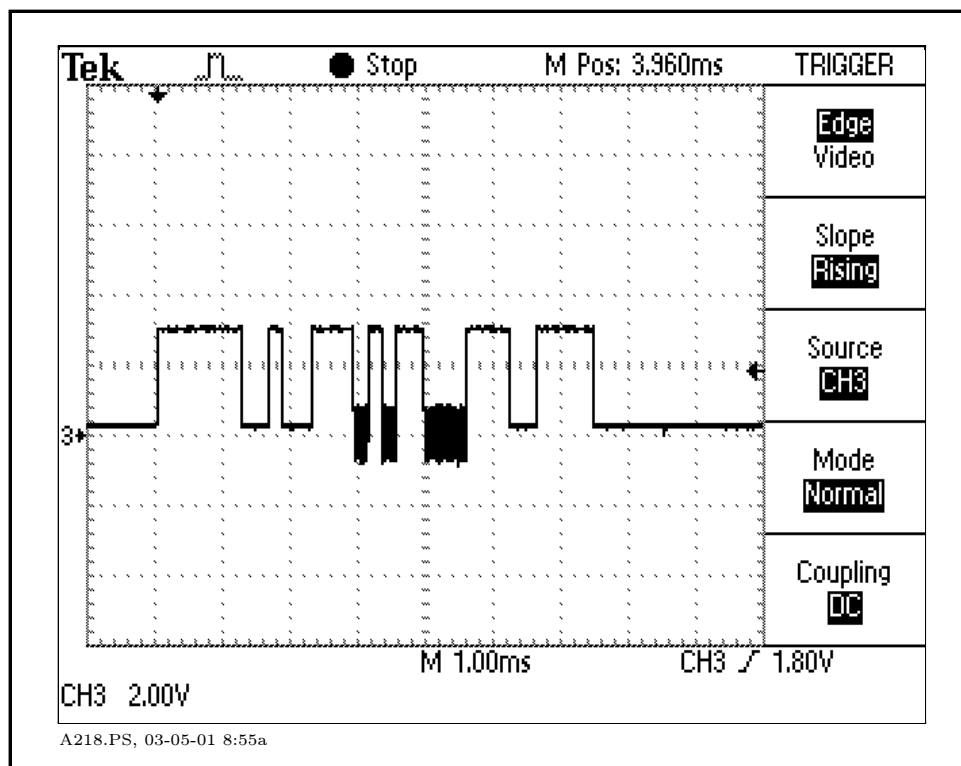


Figure 5. AD2078 with a 60Ω termination and noise in the signal

Trace	Use
3	AD-2078/02 $T+$, $T-$ signal line.

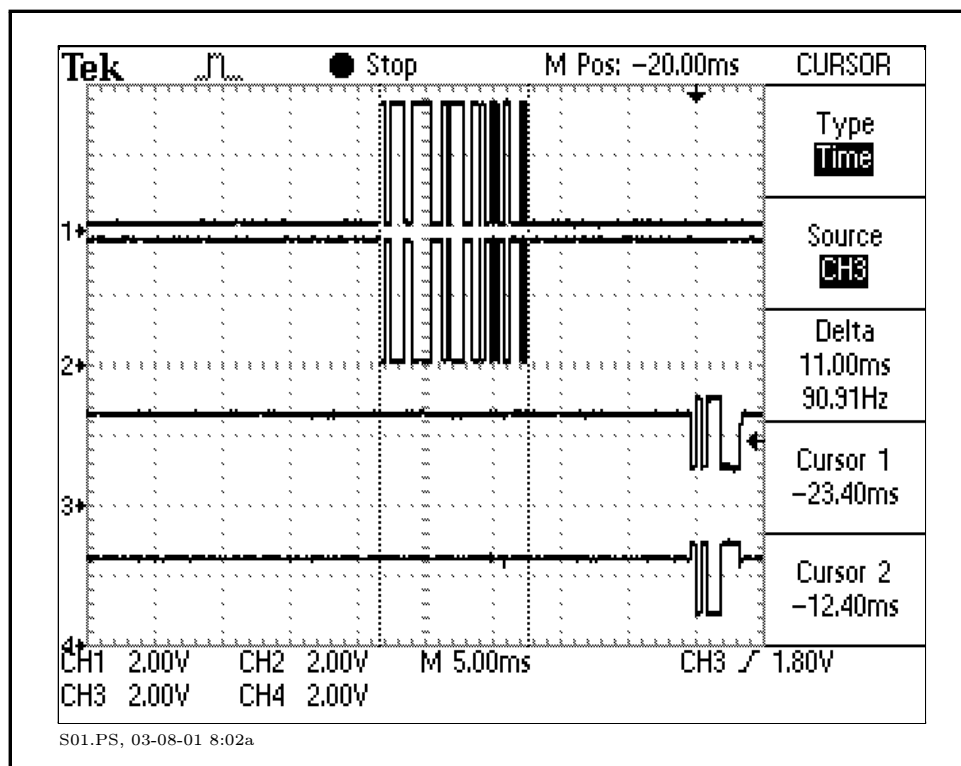


Figure 6. Old dome, Pan right from an AD2083/02A.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

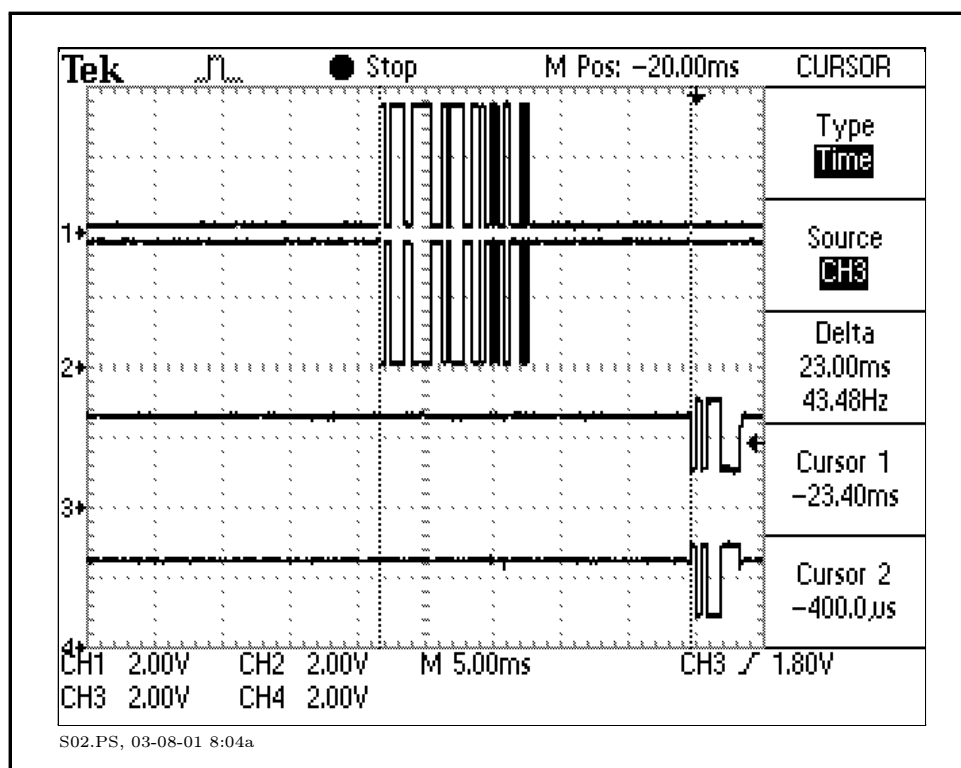


Figure 7. Old dome, Same as S01, time to ACK.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

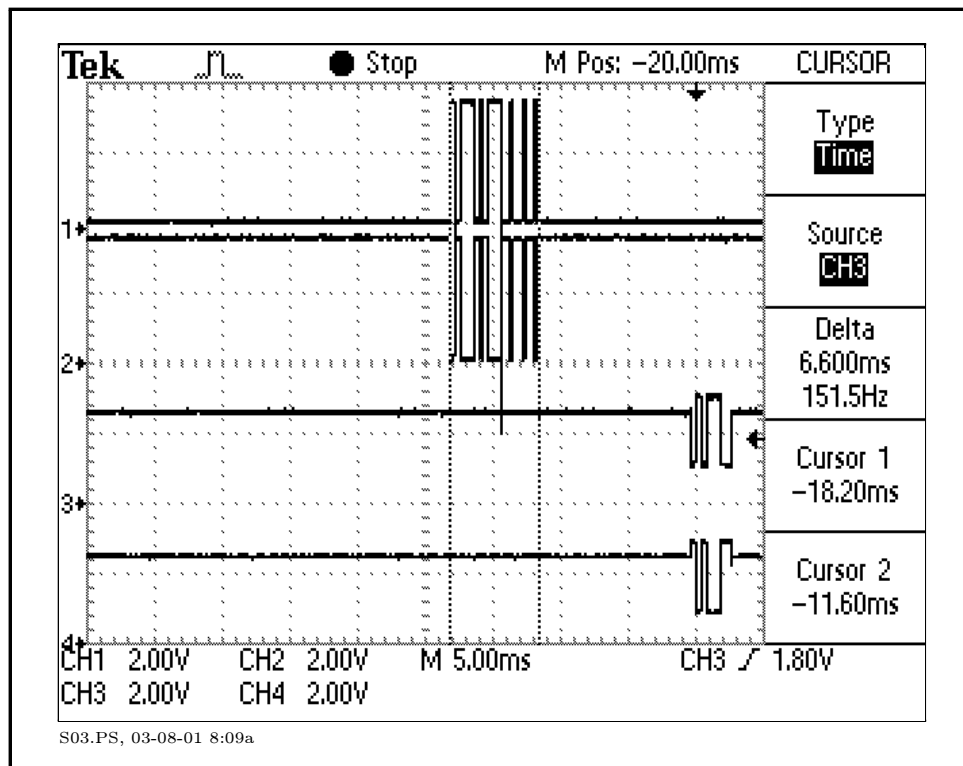


Figure 8. Old dome, Stop command following S01.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

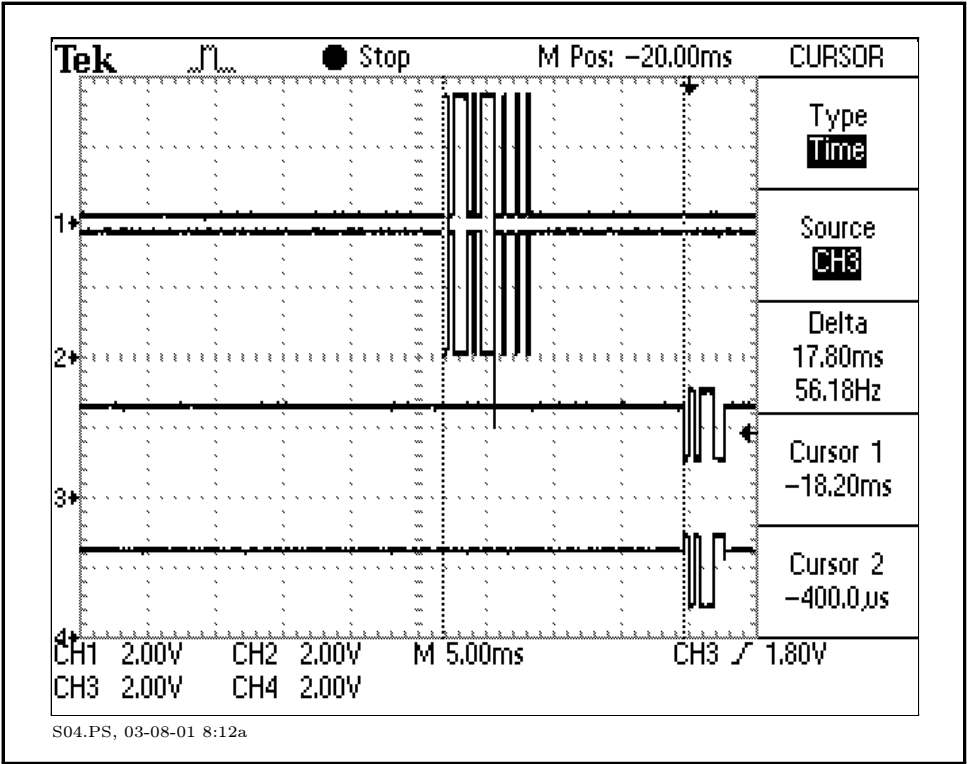


Figure 9. Old dome, ACK timing for S03.

Trace	Use
1	AD-2083/2A <i>T+</i> data out
2	AD-2083/2A <i>T-</i> data out.
3	AD-2083/2A dome <i>R+</i> data in.
4	AD-2083/2A dome <i>R-</i> data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

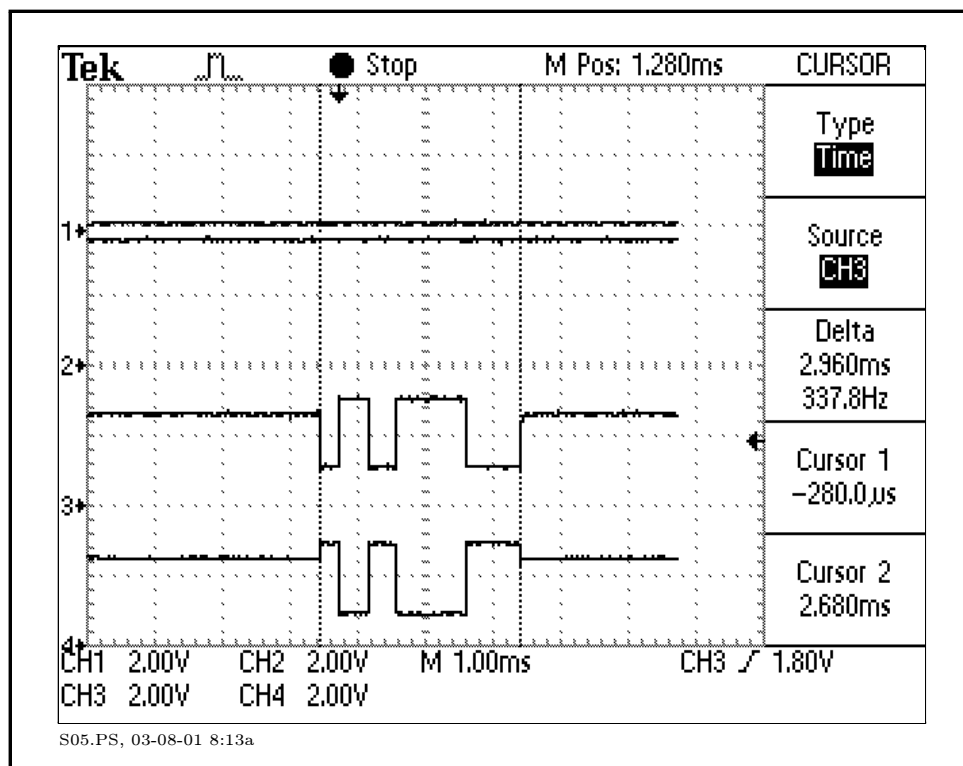


Figure 10. Old dome, Expanded S03 ACK timing.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

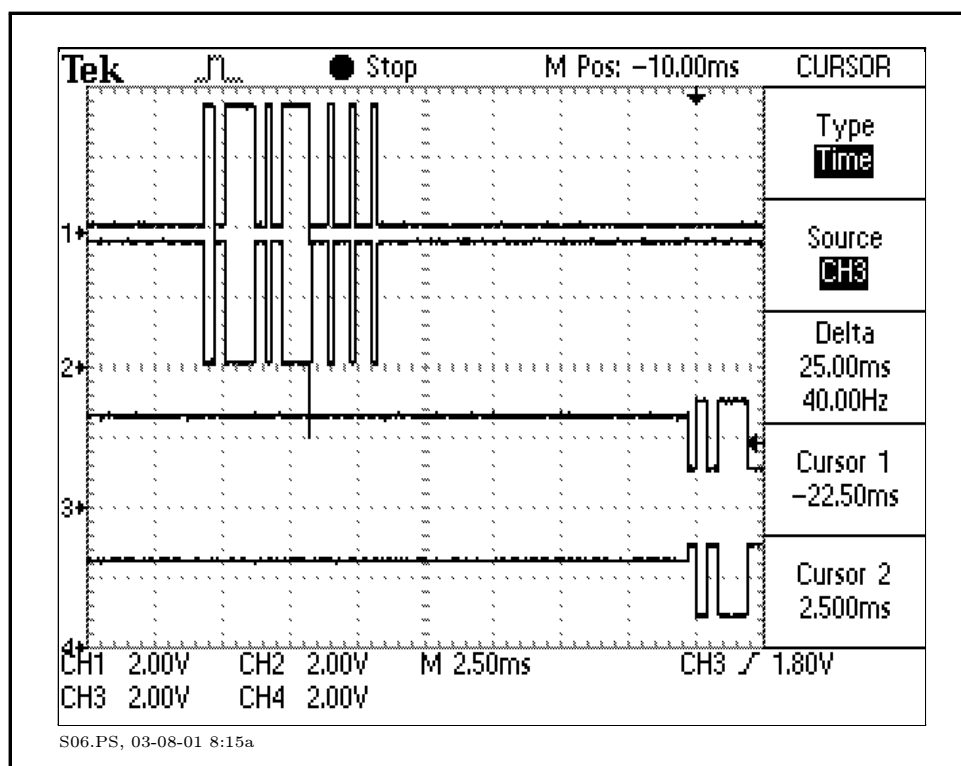


Figure 11. Old dome, Expanded stop command from S03.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

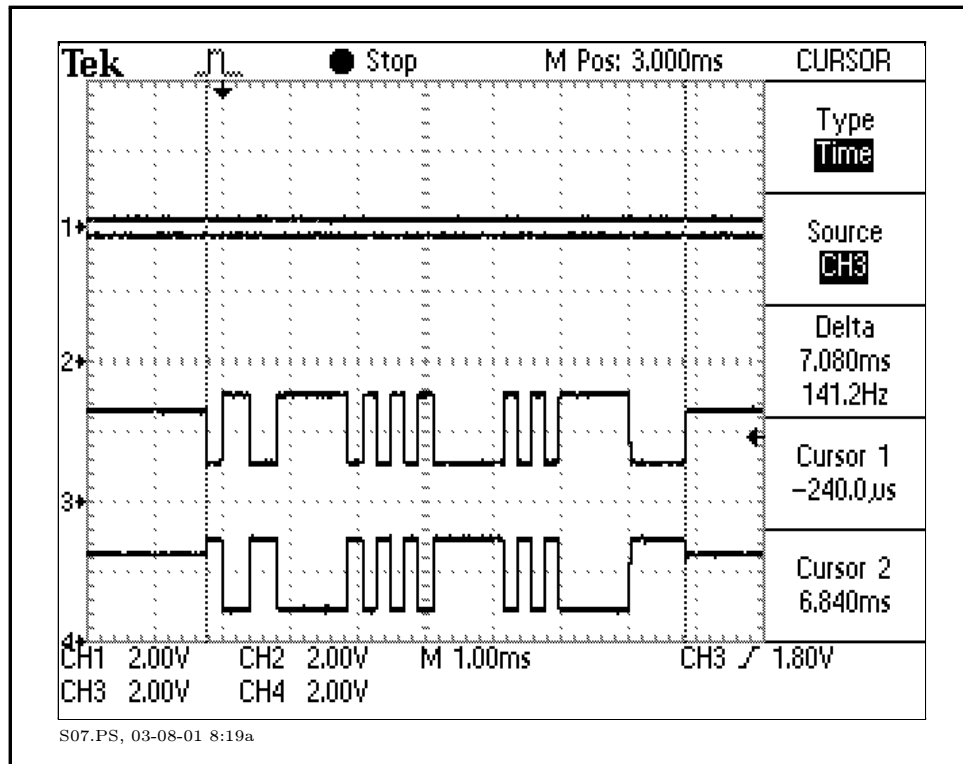


Figure 12. Old dome, Poll response.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

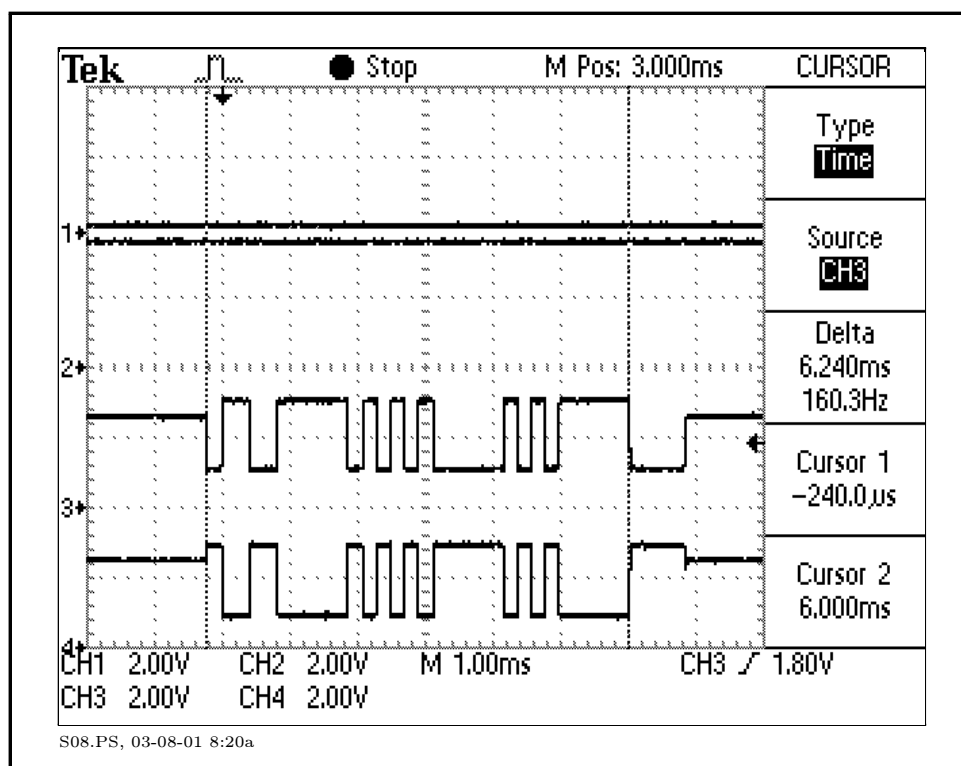


Figure 13. Old dome, Poll response with marker at 6.24 ms.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

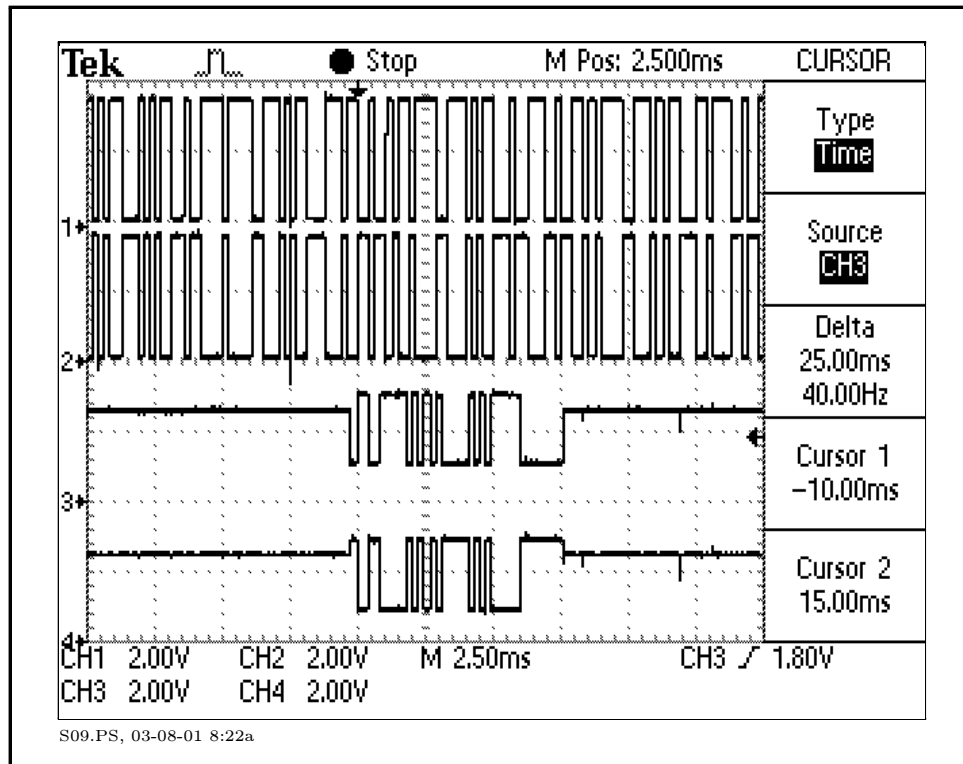


Figure 14. Old dome, Power up of AD2083/02A, poll response.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

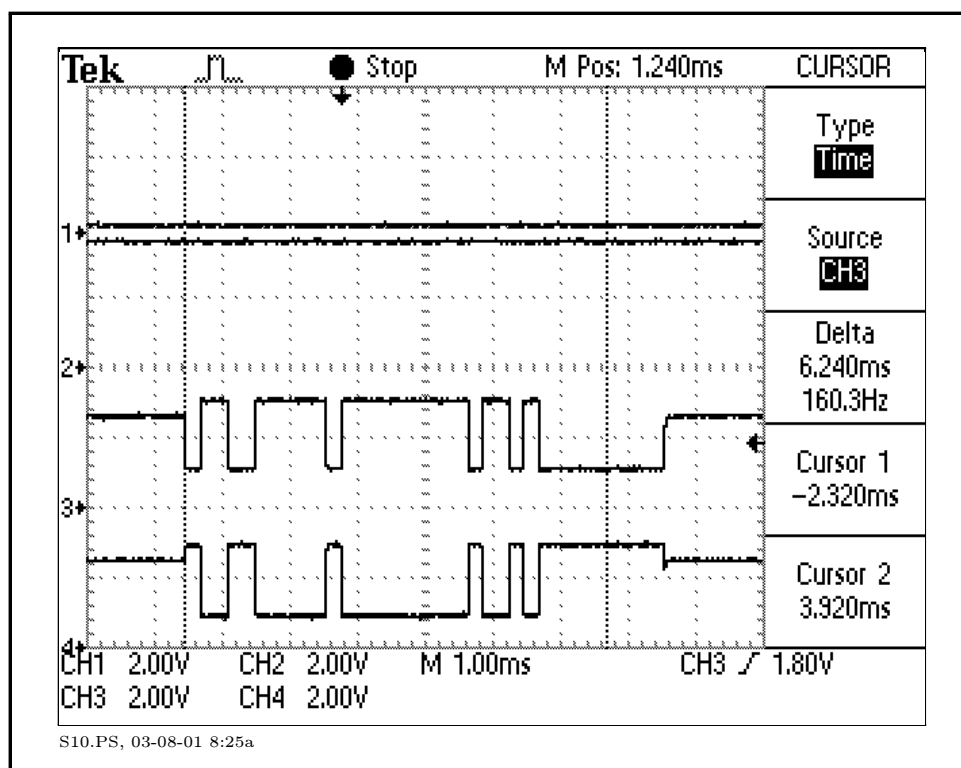


Figure 15. Old dome, Dome power up message.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

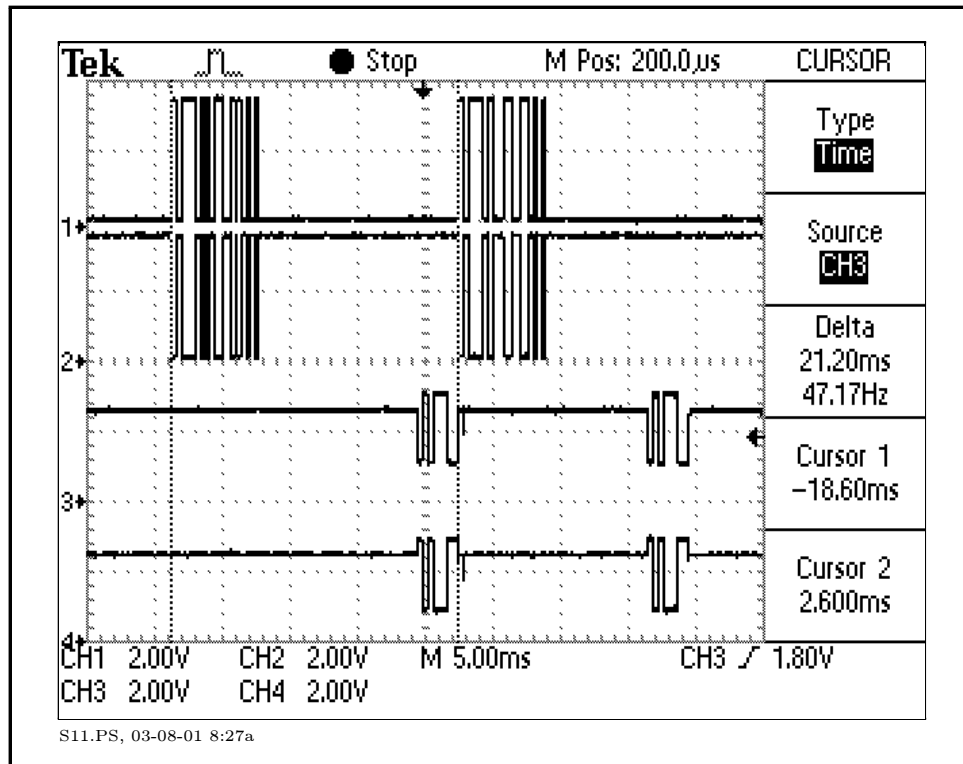


Figure 16: Old dome, Two commands which cause a flip. Generated with “40 SHOT” from the AD2050 via the AD2083/02A

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

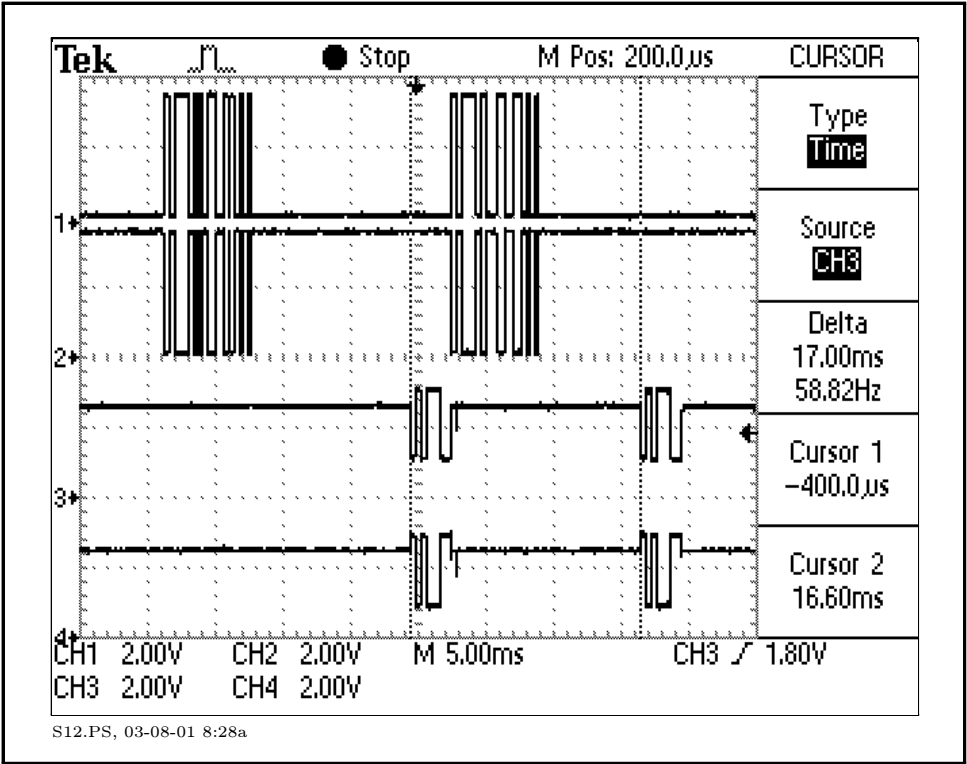


Figure 17. Old dome, Timing ACK, form S11.

Trace	Use
1	AD-2083/2A <i>T</i> + data out
2	AD-2083/2A <i>T</i> − data out.
3	AD-2083/2A dome <i>R</i> + data in.
4	AD-2083/2A dome <i>R</i> − data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

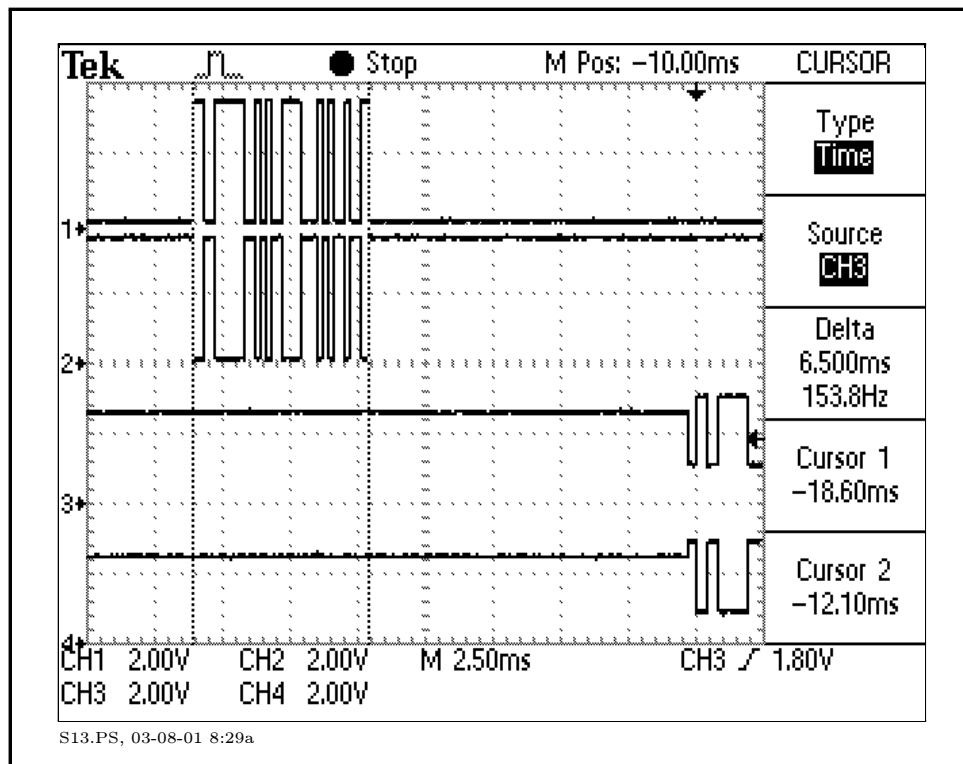


Figure 18. Old dome, S11 command 1 expanded.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

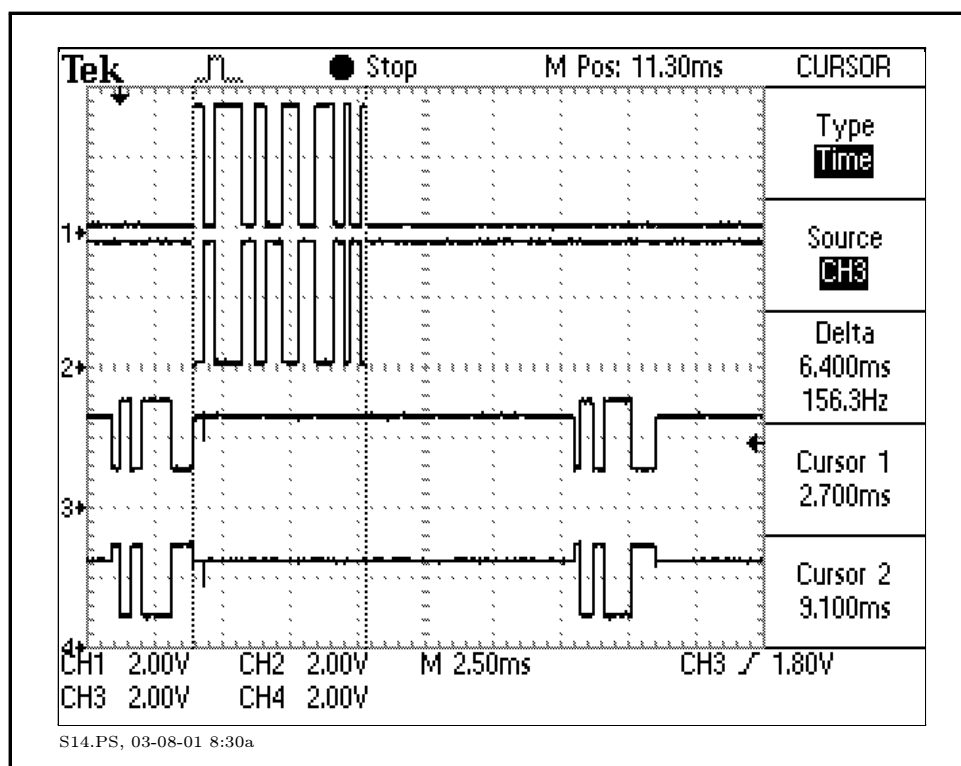


Figure 19. Old dome, S11 command 2 expanded.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in.
4	AD-2083/2A dome $R-$ data in.

The old dome used was:	
Model #	RA4BGLP
Part #	01RA4BGLP
Serial #	555790
Rev.	D0
Mfd.	2QTR92

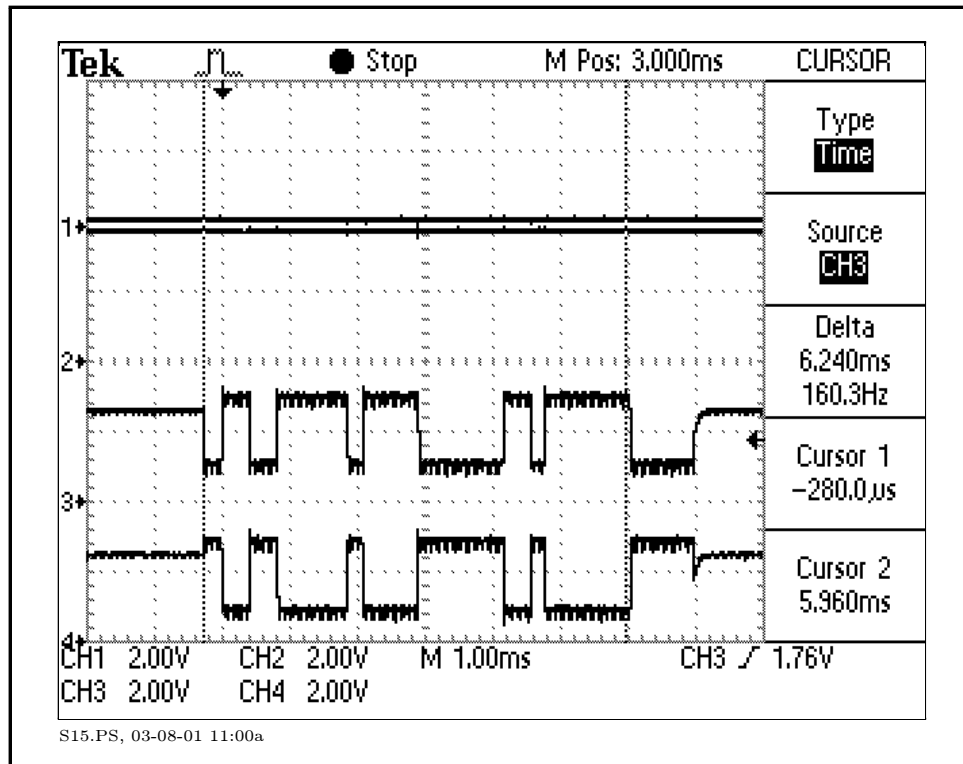


Figure 20. Newer dome, Poll response.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

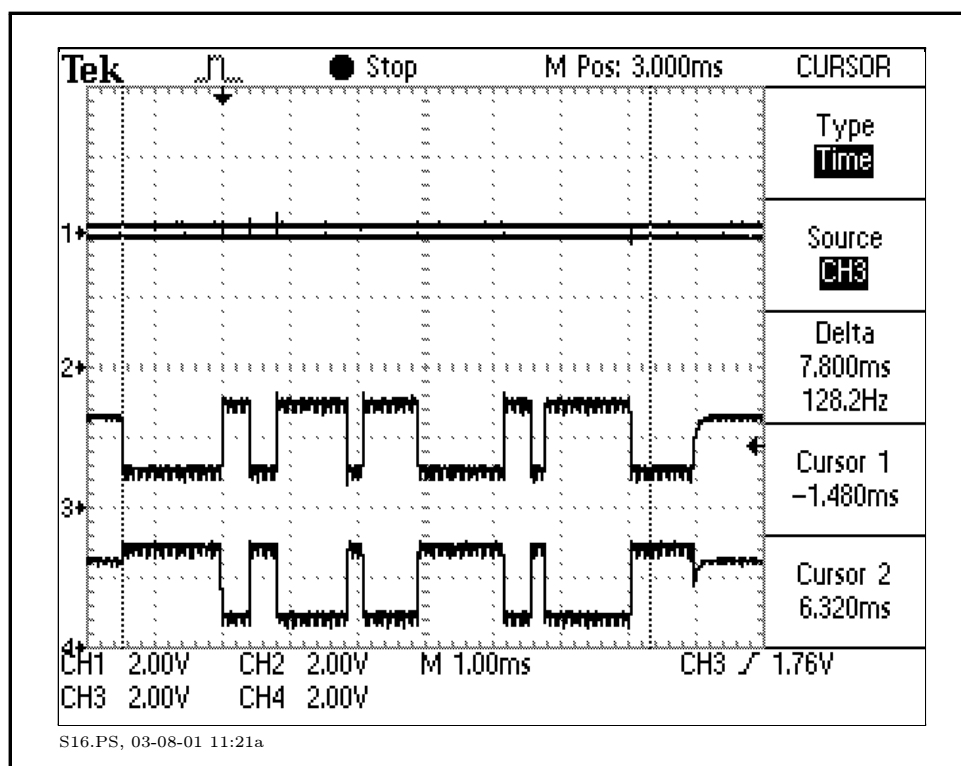


Figure 21. Newer dome, Poll response?

Trace	Use
1	AD-2083/2A T^+ data out
2	AD-2083/2A T^- data out.
3	AD-2083/2A dome R^+ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome R^- data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

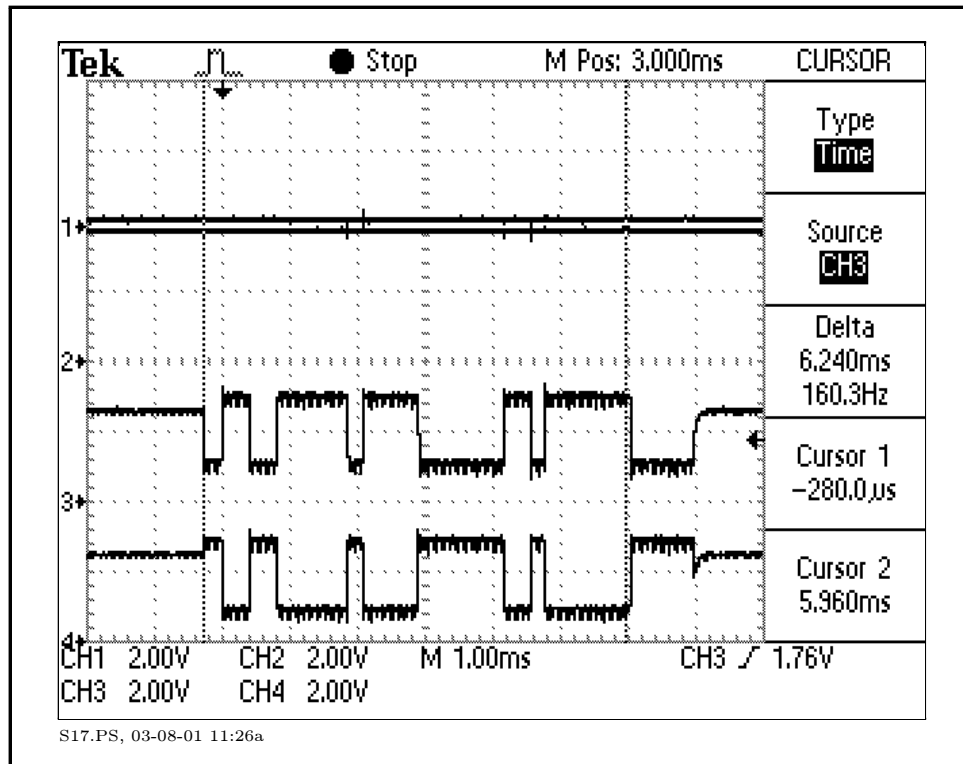


Figure 22. Newer dome, Poll response.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

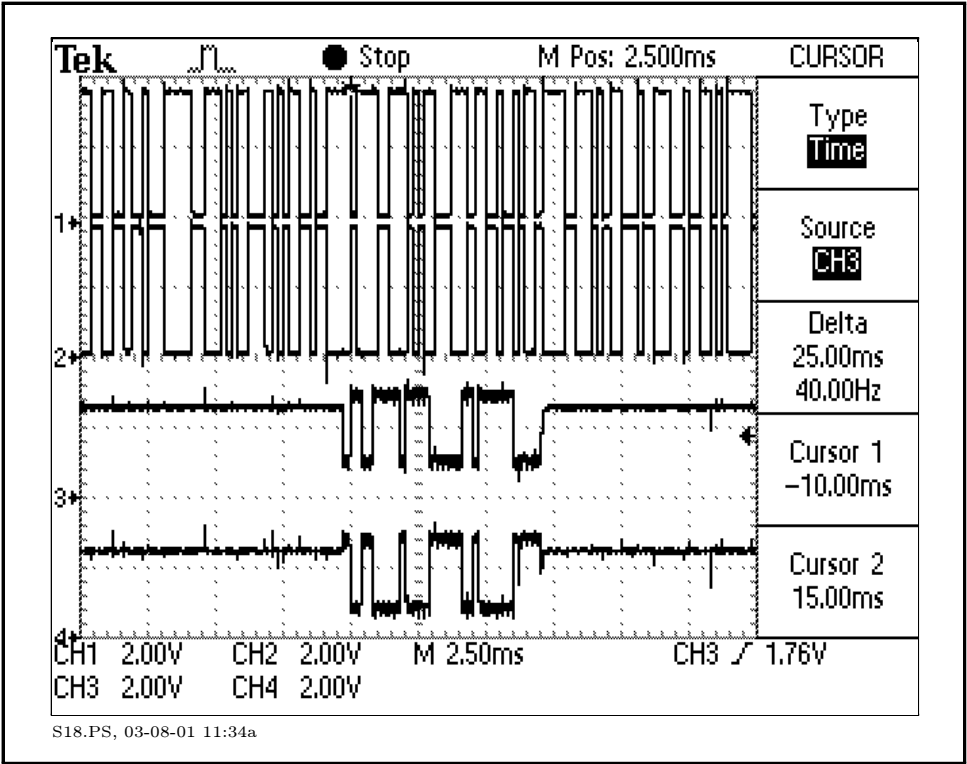


Figure 23. Newer dome, Poll response to power up of AD2083/02A.

Trace	Use
1	AD-2083/2A <i>T+</i> data out
2	AD-2083/2A <i>T-</i> data out.
3	AD-2083/2A dome <i>R+</i> data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome <i>R-</i> data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

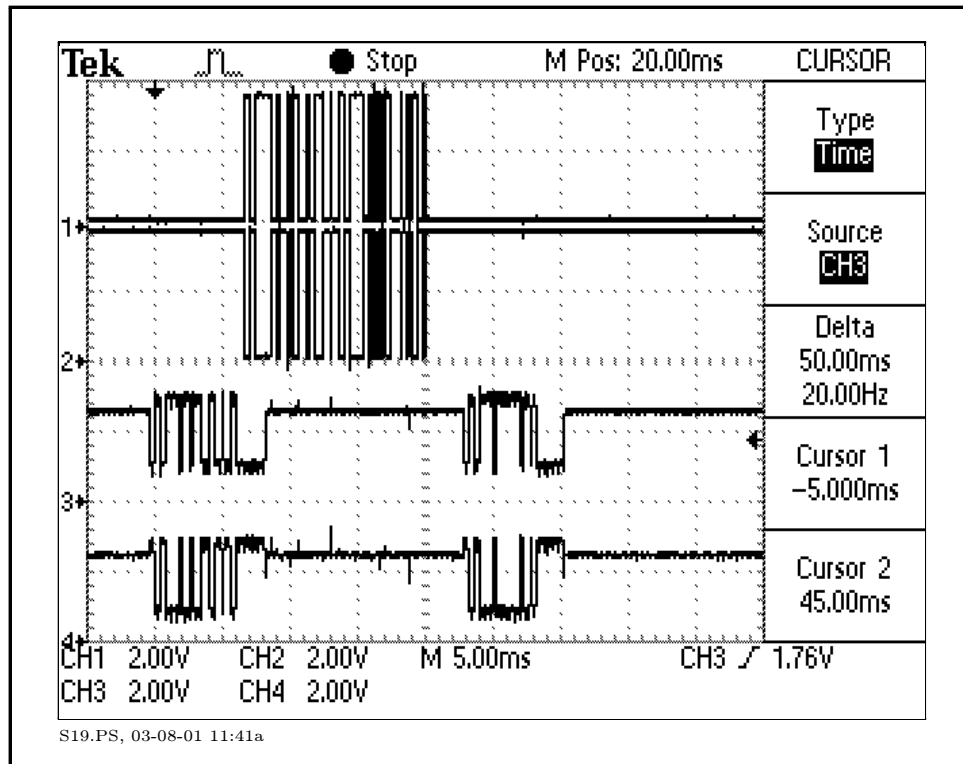


Figure 24. Newer dome, Dome power up message.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

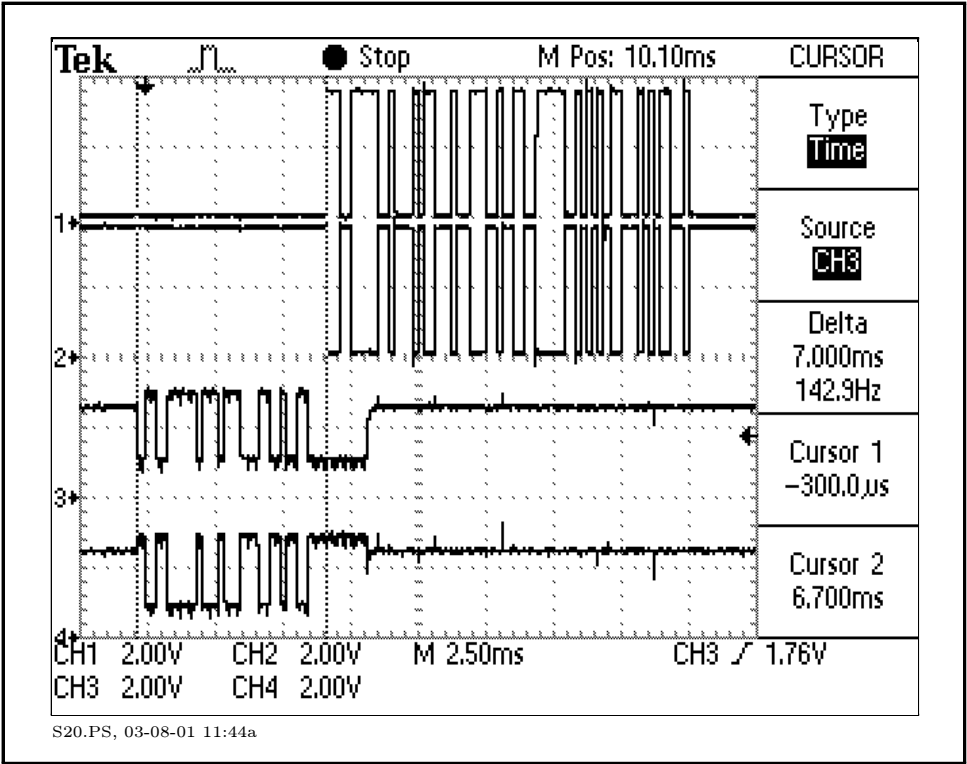


Figure 25. Newer dome, Expanded first dome message and matrix reply from S19.

Trace	Use
1	AD-2083/2A <i>T+</i> data out
2	AD-2083/2A <i>T-</i> data out.
3	AD-2083/2A dome <i>R+</i> data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome <i>R-</i> data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

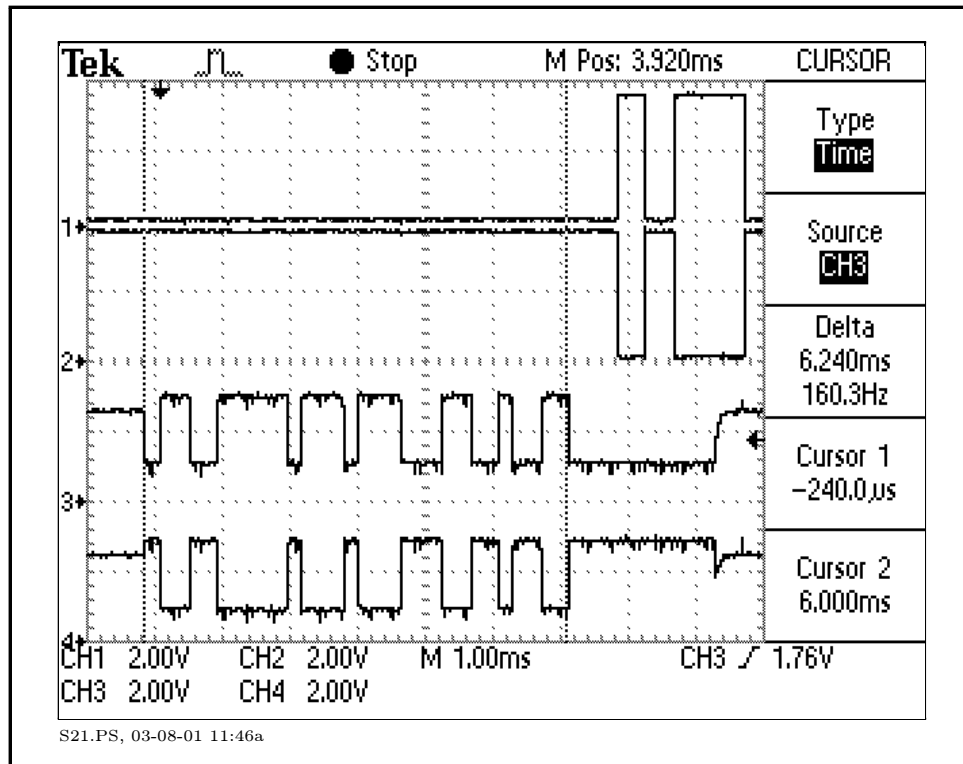


Figure 26. Newer dome, Expanded first dome message from S19.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

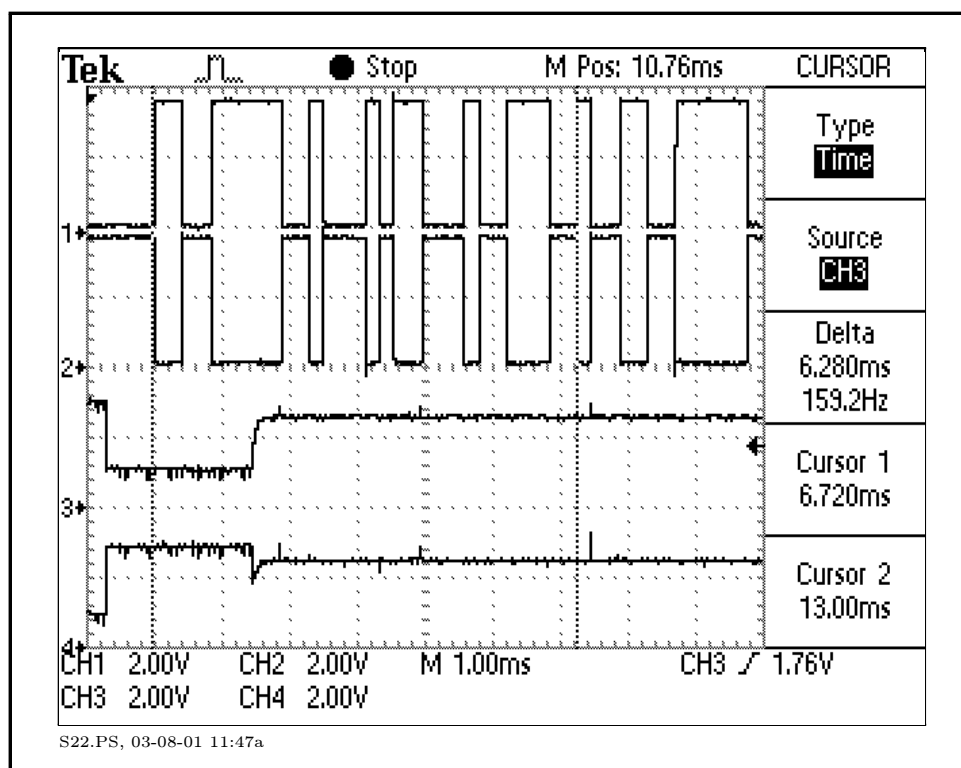


Figure 27: Newer dome, Expanded first 6.24 ms of matrix response to dome's power up message from S19.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

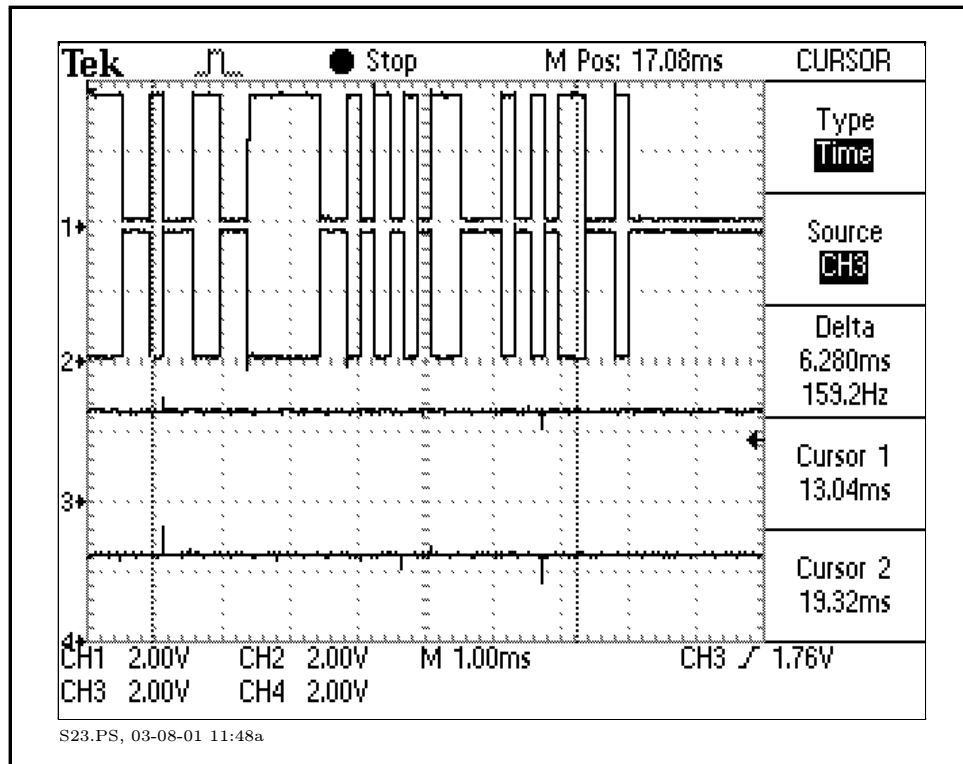


Figure 28: Newer dome, Expanded rest of matrix response to dome's power up message from S19.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

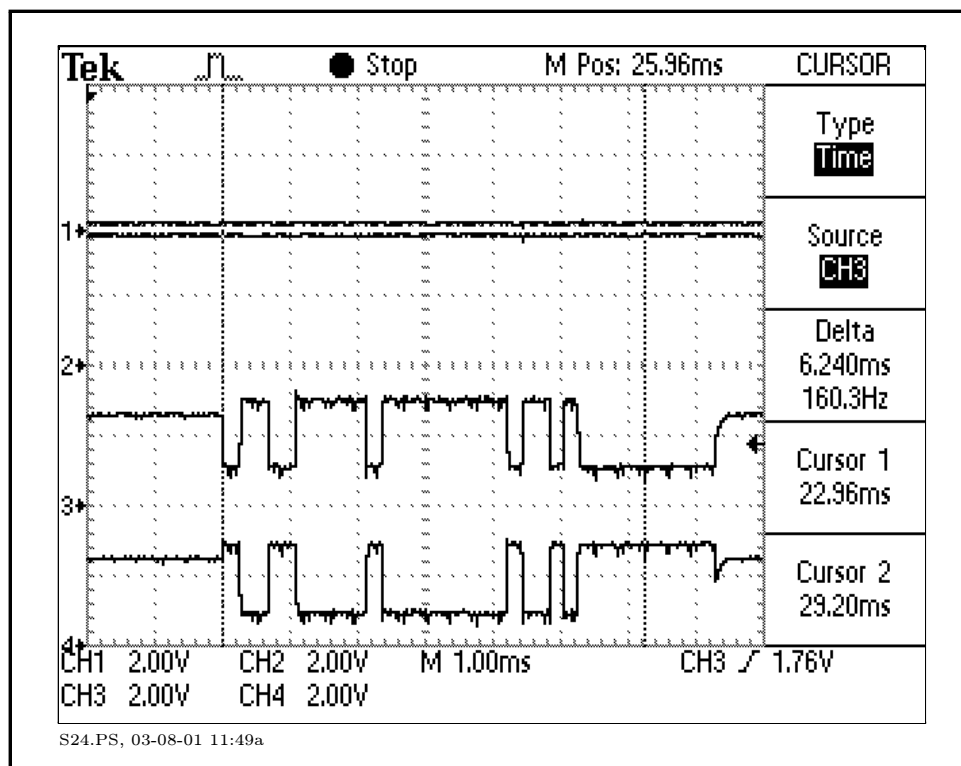


Figure 29. Newer dome, Second dome message from S19.

Trace	Use
1	AD-2083/2A T^+ data out
2	AD-2083/2A T^- data out.
3	AD-2083/2A dome R^+ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome R^- data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95

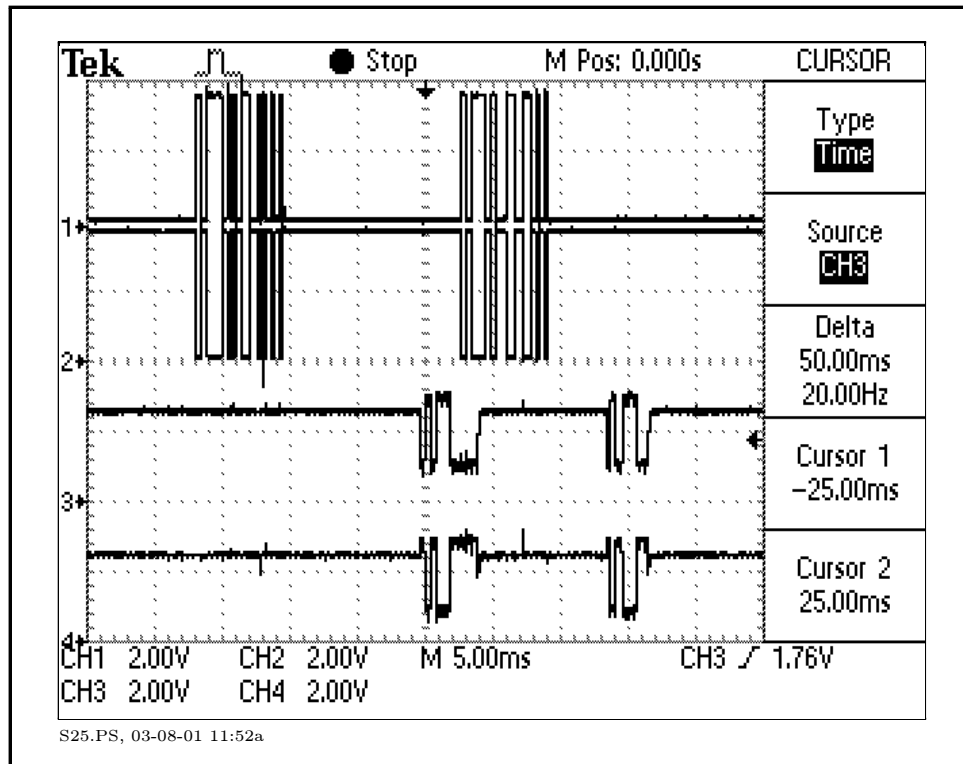


Figure 30: Newer dome, Commands to cause a flip. Generated with a “40 SHOT” from the AD2050 via the AD2083/2A.

Trace	Use
1	AD-2083/2A $T+$ data out
2	AD-2083/2A $T-$ data out.
3	AD-2083/2A dome $R+$ data in with a .01 cap to ground because of noise from the data out lines.
4	AD-2083/2A dome $R-$ data in.

The newer dome used was:	
Model #	SPEEDDOME 2000 OUTDOOR
Reg M/N	SU SD
Part of	0100-0760-05
Serial #	1507495
Rev.	A0
Mfd.	4QTR95