

User Advisory Altair® Pro HCN, SO₂, NO₂, and PH₃ Detectors

Supersedes the April 20, 2011 User Advisory

May 26, 2011

MSA Corporate Center
1000 Cranberry Woods Drive
Cranberry Township, PA 16066
800.MSA.2222
www.MSAnet.com

This *User Advisory* clarifies our recently issued *User Advisory* concerning certain Altair Pro Detectors manufactured from September 2010 through March 2011. The affected detectors were inadvertently calibrated to one half of the appropriate gas concentration when shipped. As such, the detectors will display one half of the actual gas present and the low and high alarms will activate at twice the intended default alarm points.

A bump test will NOT detect this condition. It is important to remove all affected instruments from service, adjust the instrument expected calibration value setting as needed and calibrate, according to the procedure described below, in order for the instrument to function properly.

The Altair Pro detectors affected are the hydrogen cyanide (HCN), sulfur dioxide (SO₂), nitrogen dioxide (NO₂), and phosphine (PH₃) versions. No other instruments are affected. To identify affected units, locate the serial number in the lower left corner of the bar code label on the back of the instrument.



↑ serial number

The attached list contains the serial numbers of all detectors affected by this advisory. If preferred, rather than verifying the serial number, you can easily check the expected calibration value and if not properly set; adjust it to the appropriate level and then calibrate the instrument as follows:

Adjusting the Expected Calibration Value and Calibrating the Instrument:

Make sure you are in fresh, uncontaminated air.

1. In normal operating mode, press and hold the TEST button for two seconds.
 - “TEST” “GAS” “?” displays.
2. While “TEST” “GAS” “?” is displaying, press and hold the TEST button for three seconds.
 - “TEST” “CAL” displays
 - After three more seconds, “FAS” “?” displays asking the user if a fresh air setup/calibration is desired.
3. Press the TEST button to enter zero calibration.
NOTE: Otherwise, the instrument will return to the normal operating mode.
4. During zero calibration:
 - The hour glass and “FAS” display
 - If the instrument successfully calibrates:
 - “OK” displays
 - If the instrument does not successfully calibrate:
 - “ERR” displays
 - Instrument returns to normal operating mode after five seconds.
5. Once the instrument successfully calibrates and the “OK” displays:
 - “CAL” “?” displays.
6. While the “CAL” “?” displays, press the TEST button to enter the Gas Calibration mode.
 - The current expected calibration value is shown (in ppm).
 - The correct default factory expected calibration values are as follows:
 - HCN – 10 ppm
 - SO₂ – 10 ppm
 - NO₂ – 10 ppm
 - PH₃ – 0.5 ppm

WARNING – The expected calibration value must match the gas concentration identified on the calibration gas cylinder that will be used to calibrate the instrument. If they do not match, an incorrect calibration will occur.



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7. To adjust the expected calibration value, press the TEST button.
 - “TEST” “SET” “?” “ppm” displays.
 - Press the TEST button in rapid succession to increment.
 - Wait three seconds to return to the Calibration mode.

8. Apply the appropriate test gas.
 - The display toggles between the current gas reading, the hourglass and “CAL”.
 - Once the instrument passes calibration, “OK” displays. Calibration time is dependent on the sensor installed.
 - Otherwise, “ERR” displays.
 - Wait five seconds to return to the normal operating mode.

9. If “ERR” displays after calibration, the current settings did not change. Immediately check that:
 - The calibration cylinder matches the expected calibration value.
 - The calibration cylinder is not empty and has not expired.
 - The regulator is 0.25 liters/minute.
 - The tubing is seated in the front instrument case during gas calibration mode.
 - If necessary, repeat steps 1 through 9.
 - The display must read “OK”; if “ERR” remains, remove the instrument from service.

10. Perform a bump test to confirm operation and activate the “√”.

Please refer to the instruction manual for additional information.

MSA regrets any inconvenience that this may have caused. If you have any questions or need assistance, please contact MSA Customer Service at 1-800-672-2222.

Very truly yours,

A handwritten signature in black ink, appearing to read "Charles J. Seibel, Jr." with a stylized flourish at the end.

Charles J. Seibel, Jr.
Manager of Product Safety

Enclosure
PS11019-09

HCN Detector Serial Numbers



114	02100147	02100939	02101646	03101583	10003221	12000094
187	02100148	02100940	02101647	03101584	11000317	12000220
188	02100149	02100941	02101648	03101585	11000318	12000673
192	02100150	02100942	02101649	03101586	11000766	12000674
195	02100151	02100943	02101650	03101587	11000827	12000675
196	02100160	02100944	02101651	03101588	11000828	12000676
01100004	02100161	02100945	02101652	03101738	11000829	12000677
01100138	02100850	02100946	02101653	03101762	11000834	12000716
01100139	02100851	02100947	02101654	03101763	11000835	12000717
01100140	02100852	02100948	02102086	03101764	11000849	12000718
01100371	02100853	02100949	02102087	03101765	11000895	12000719
01100397	02100854	02100950	02102477	03101766	11000913	12000720
01100665	02100855	02100951	02102478	03101768	11000960	12000721
01100666	02100856	02100952	03100420	03102326	11000963	12000896
01100667	02100857	02100953	03100421	03102436	11000964	12000897
01100984	02100858	02100954	03100422	03102439	11000965	12000898
01100985	02100859	02100955	03100423	03102440	11000966	12000899
01100986	02100860	02100959	03100424	03102478	11000967	12000900
01100987	02100861	02100960	03100425	10002651	11000968	12000901
01101608	02100862	02100961	03100426	10002654	11000978	12000902
01101609	02100863	02100962	03100427	10002656	11000992	12000903
01101610	02100864	02100963	03100428	10002658	11000993	12000904
01101611	02100865	02100964	03100429	10002661	11000994	12000905
01101612	02100866	02100965	03100430	10002663	11000995	12000906
01101613	02100867	02100966	03100431	10002665	11001175	12001049
01101614	02100868	02100967	03100432	10002825	11001186	12001073
01101625	02100869	02100968	03100433	10002827	11001187	12001074
01101626	02100870	02100969	03100467	10002833	11001208	12001075
01101628	02100871	02100970	03100511	10002839	11001219	12001076
01101629	02100872	02100971	03100512	10002845	11001220	12001077
01101820	02100873	02100972	03100513	10002851	11001221	12001206
01101821	02100874	02100973	03100514	10002857	11001222	12001344
01101822	02100875	02100974	03100569	10002869	11001223	12001345
01101823	02100876	02100975	03100570	10002875	11001224	12001346
02100102	02100877	02100976	03100571	10002882	11001225	12001369
02100103	02100895	02100977	03100647	10002884	11001226	12001370
02100104	02100896	02100978	03100648	10002893	11001227	12001371
02100105	02100897	02100979	03101420	10002899	11001228	12001372
02100106	02100898	02100980	03101421	10002907	11001276	12001373
02100107	02100899	02100981	03101422	10002915	11001277	12001652
02100108	02100922	02100982	03101423	10002921	11001278	12001657
02100109	02100923	02100983	03101424	10002929	11001279	
02100110	02100934	02100987	03101425	10002936	11001294	
02100111	02100935	02100989	03101426	10003179	11001363	
02100112	02100936	02101542	03101564	10003194	11001364	
02100139	02100937	02101644	03101581	10003219	11001365	
02100140	02100938	02101645	03101582	10003220	11001366	

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SO2 Detector Serial Numbers

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139	02102475	03102294	10003046	11001184	11001261	12000211
141	02102619	03102295	10003175	11001185	11001262	12000212
142	02102620	03102296	10003176	11001214	11001263	12000213
0110183	02102621	03102297	10003222	11001215	11001264	12000214
01100411	02102622	03102298	10003226	11001216	11001265	12000215
01100412	03100439	03102299	10003227	11001217	11001266	12000221
01100413	03100440	03102300	11000892	11001218	11001267	12000436
01100414	03100441	03102301	11000893	11001229	11001268	12000437
01100415	03100442	03102302	11001037	11001230	11001269	12000912
01100417	03100443	03102303	11001054	11001231	11001270	12000917
01100418	03100444	03102304	11001075	11001233	11001271	12000918
01100420	03100446	03102307	11001076	11001234	11001288	12000919
01100421	03100577	03102308	11001077	11001235	11001289	12001347
01100422	03100581	03102309	11001152	11001236	11001290	12001348
01100423	03100582	03102310	11001153	11001237	11001291	12001349
01100425	03100583	03102311	11001154	11001238	11001292	12001350
01100426	03101346	03102312	11001155	11001239	11001301	12001351
01100427	03101347	03102313	11001157	11001240	11001302	12001353
01100447	03101348	03102314	11001158	11001241	11001303	12001354
01100490	03101349	03102315	11001159	11001242	11001304	12001355
01101016	03101350	03102316	11001160	11001243	11001305	12001408
01101623	03101351	03102317	11001161	11001244	11001306	12001409
01101747	03101352	03102318	11001162	11001245	11001307	12001410
01101826	03101353	03102319	11001163	11001246	11001308	12001411
01101827	03101356	03102320	11001165	11001247	11001309	12001412
01101828	03101357	03102321	11001166	11001248	11001310	12001413
01101881	03101358	03102322	11001168	11001249	11001327	12001414
01101882	03101359	03102323	11001169	11001250	11001328	12001415
02100577	03101360	03102324	11001170	11001251	11001329	12001416
02100578	03101361	03102325	11001171	11001252	11001330	12001417
02100958	03101746	03102437	11001176	11001253	11001331	12001418
02101416	03101747	03102438	11001177	11001254	11001332	12001459
02101561	03101748	10002648	11001178	11001255	11001333	12001460
02101568	03101749	10002824	11001179	11001256	11001334	12001461
02101667	03101750	10002826	11001180	11001257	11001335	12001462
02101668	03101751	10003035	11001181	11001258	11001336	12001463
02101669	03101769	10003044	11001182	11001259	12000011	
02101670	03102293	10003045	11001183	11001260	12000210	



NO2 Detector Serial Numbers

143	10003217	12001663	01100668	02101675	03100445	03100453
144	10003218	01100003	01101043	02101676	03100447	03100454
193	11000354	01100135	01101624	03100434	03100448	03100455
10002640	11000355	01100136	02101423	03100435	03100449	03100456
10003214	11001285	01100396	02101424	03100436	03100450	
10003215	11001286	01100600	02101425	03100437	03100451	
10003216	12000216	01100601	02101426	03100438	03100452	

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PH3 Detector Serial Numbers

153	10002885	10002922	10003034	12001654	02100574	03102305
154	10002892	10002928	11000329	12001655	02100988	03102306
194	10002900	10002935	12001377	12001656	02101560	03102329
10002653	10002906	10003028	12001378	12001658	02101567	
10002876	10002908	10003029	12001396	01101824	03101760	
10002883	10002914	10003032	12001653	01101825	03101761	