

Technical Note

Vertex[®] Software Release 1.25.15

1998-1046 Rev 1 11/22

Honeywell Analytics is pleased to announce the release of Vertex software 1.25.15.

This software package is to support three newly released Chemcassette[®] tapes. For further information on the new Chemcassettes please refer to the respective Technical Notes indicated below.

- Germane and XPV Germane (Technical Note 1998-1040)
- XPV Chlorine-3 (Technical Note 1998-1041)

The below chart supplies the individual gas details found in the Vertex and Vertex-M manuals.

- Vertex – revision 29
- Vertex-M – revision 17

Technical Note

Gas Name ¹	TLV	LAL	LDL	Default Alarm Level 1	Default Alarm Level 2	Range	Alarm Setting	Initial Analysis Period (second)	Time to 1 TLV (Alarm @ 2 TLV Concentration 10-ft. Sample Line)	Chemcassette Part Number
Arsine (AsH ₃)	50 ppb	3 ppb	2.5 ppb	50 ppb	100 ppb	0-500 ppb	3-14.9 ppb 15-59.9 ppb 60-249.9 ppb 250-500ppb	60 60 30 15	<16sec (Alarm @ 50ppb with 100ppb gas)	1295-0566
Arsine (AsH ₃ /L)	5 ppb	0.5 ppb	0.3 ppb	5 ppb	10 ppb	0-50 ppb	0.5-1.9 ppb 2-4.9 ppb 5-9.9 ppb 10-50 ppb	180 150 60 30	<70sec (Alarm @ 5ppb with 10ppb gas)	1295-0566
Germane (GeH ₄)	200 ppb	100 ppb	85 ppb	200 ppb	400 ppb	0-2000 ppb	100-149 ppb 150-199 ppb 200-399 ppb 400-2000 ppb	90 90 60 60	<87sec (Alarm @ 200ppb with 400ppb gas)	1295-0566

Chlorine XPV Chlorine-3 (Cl ₂)	0.1ppm	0.060 ppm	0.050 ppm	0.250 ppm	0.500ppm	0-5.000 ppm	0.060-0.249 ppm 0.250-0.499 ppm 0.500-0.999ppm 1.000-5.000 ppm	120 45 30 30	<55sec (Alarm @ 0.1ppm with 0.2ppmCl2 gas) <22sec (Alarm @ 0.5ppm with 1.0ppm Cl2 gas)	1295-0565
Chlorine XPV Chlorine-3 (Cl ₂ /LL)	0.1ppm	0.030 ppm	0.010 ppm	0.050 ppm	0.100ppm	0-1.000 ppm	0.030-0.049 ppm 0.050-0.099 ppm 0.100-0.199 ppm 0.200-1.000 ppm	120 120 90 60	<60sec (Alarm @ 0.1ppm with 0.2ppm Cl2 gas)	1295-0565
Fluorine XPV Chlorine-3 (F ₂)	0.1 ppm	0.07 ppm	0.050 ppm	1.000 ppm	2.000 ppm	0 - 10.000 ppm	0.060-0.999 ppm 1-1.999 ppm 2.000-3.999 ppm 4.000-10.000 ppm	120 90 60 30	<110sec (Alarm @ 0.1ppm with 0.2ppm F2 gas) <35 sec (Alarm @ 1.0ppm with 1ppm F2 gas)	1295-0565
Fluorine XPV Chlorine-3 (F ₂ /LL)	0.1 ppm	0.05 ppm	0.030 ppm	0.100 ppm	0.200 ppm	0 - 1.000 ppm	0.050-0.099 ppm 0.100-0.199 ppm 0.200-0.399 ppm 0.400-1.000 ppm	180 180 60 60	<155sec (Alarm @ 0.1ppm with 0.2ppm F2 gas)	1295-0565

Arsine XPV-Germane (AsH ₃ /L)	5 ppb	0.5 ppb	0.3 ppb	5 ppb	10 ppb	0-50 ppb	0.5-1.9 ppb 2-4.9 ppb 5-9.9 ppb 10-50 ppb	180 150 60 30	<70 sec (Alarm @ 5 ppb with 10ppb gas)	1295-0564
Arsine XPV-Germane (AsH ₃)	50 ppb	3 ppb	2.5 ppb	50 ppb	100 ppb	0-500 ppb	3-14.9 ppb 15-59.9ppb 60-249.9ppb 250-500ppb	60 60 30 15	<16sec (Alarm @ 50ppb with 100ppb gas)	1295-0564
Germane XPV-Germane (GeH ₄)	200 ppb	100 ppb	85 ppb	200 ppb	400 ppb	0-2000 ppb	100-149 ppb 150-199 ppb 200-399 ppb 400-2000 ppb	90 90 60 60	<87sec (Alarm @ 200ppb with 400ppb gas)	1295-0564

TLV - Threshold Limit Value LAL - Lowest Alarm Level LDL - Lower Detectable Limit

1. "-1" calibrations allow more stain development but will extend response times

2. Minimum Sample Time

Technical Note

Find out more:

<https://sps.honeywell.com/us/en/products/safety/gas-and-flame-detection>

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