
ALPHA7A/L Update

Scott Lamb

Product Manager – Contamination

AMUG – Las Vegas, NV

April 2012

ALPHA7A/L with Remote Radial Head



Past Updates & Improvements

- Software V2.2.0.2 was released to production in 2010
- V2.2.0.2 delivered with all new units since that time
- Numerous improvements to the user interface, no changes to the alarm algorithms
- Operation of Remote Client on Windows XP
- Next Generation SBC using WinXP Embedded
- Best in class sensitivity with lowest false alarm rate

What is new and in Progress for 2012?

- SBC Upgrade Kit is now available
 - Next Generation SBC w/grounded Ethernet connector
 - Two external USB ports
 - WinXP Operating System
 - New Hard Drive
- V2.3 available soon (~June 2012)
 - Software utility for set up of user preferences/profiles
 - Enhanced limit checking on user inputs
 - Elimination of null flow issue
- Differential mode algorithm under consideration

LANL Update

- ~260 Units in Service, primarily the Radial Head configuration
- Program Manager, David Wannigman, very pleased with the performance
- 4 DAC-Hr alarm set point
- Alarm level is routinely achieved in 5 minutes or less
- Typical MDA is 1 DAC-Hr

LANL Update (continued)

- Very low false alarm rate, approximately 6 per year
- False alarm rate is 1 per 2 million CAM operational hours, or the rate of 1 per CAM each 33.3 years
- Fleet is operating on software V2.1.0.1
- V2.2.0.2 has been tested and approved but not yet implemented. Plan to implement V2.3 when available.

INL Update

- Approx 150 units in service within three different functional groups
- Majority of units currently operating versions 1.9 and 2.0
- Field testing of V2.2.0.2 has demonstrated significant improvements in sensitivity and reliability
- Programs in place to upgrade entire fleet to V2.3 in 2012

Questions?
