

Military Electro-optics and Night Vision Device Servicing

Considerations for

On-Site Nitrogen Generation

Key Considerations

- Regular purging of optics, sights and NVGs is essential to performance and reliability
- Quality level of nitrogen must be assured
- Use of low pressure N2 source eliminates damage potential
- Stocking & transporting pressurized canisters is safety issue
- Easy on-site availability of N2 simplifies and encourages conduct of regular purging
- Acquiring quality N2 may be difficult in deployed or combat situation
- US Army PM Sensor & Laser at Fort Rucker directive states:

“ANVIS is filled with dry nitrogen and sealed to prevent dirt and moisture from degrading the optical performance. In addition, maintaining a slight positive pressure with the nitrogen enables the objective focus and eyepiece focus rings to move smoothly. As required, the ANVIS must be purged with nitrogen every 6 months.”

Solutions – Military On-Site Low Pressure Nitrogen Generator

Options:

1 - N2 GEN-4 Nitrogen Generator

NSN 3655-01-556-1083

- Specifically designed to provide low pressure N2 for optics

- Fully self-contained unit
- Listed as “authorized” N2 supply source for ANVIS/NVGs.
- Suited for shop wall, mobile van & shelter mounting
- Field and combat zone proven
- High reliability, minimal maintenance & long use life

Option 2 - N2- GEN® 4 HC - Deployable Compact Nitrogen Generator

- Specifically designed to provide low pressure N2 for optics
- Mobile Fully self-contained unit
- Provided in its own rugged man-portable case
- Stand alone use anywhere – indoors and outdoors
- N2 Generator in case is the same as the PM approved N2 Gen-4
- Uses 110 v/60 Hz power

Benefits & Advantages of N2 Gen

- Assures proper care and prevents damage to optics/NVGs
- Eliminates need to reorder and store pressurized tanks
- Saves money over time (ROI in as little as 12-24 months)
- Same units suitable for use in garrison and the field
- Can be deployed including by aircraft and ship