



902 Sensor Block PN SA1371 Compensation Voltage

Description: The factory set compensation voltage was increased from 1.00 volt to 1.25 volts in order to increase the service life of the sensor block.

This change may cause problems for users who utilize a non standard aperture to decrease response time and also use a calibration gas at the full-scale range of the analyzer. The user may notice that the mV reading has exceeded 250 mV before the analysis cycle has completed.

Solution: A procedure to burn in the light source for 500 hours before use will allow the factory set compensation voltage to be set to 1.00 volt as previously done, while still increasing the service life of the sensor block.

Serial number range for 902 sensor blocks with compensation voltage set at 1.25Vdc:

0239-187 (produced 09/09/02) through to 0310-405 (produced 03/10/03)

All sensor block assemblies produced from serial number 0310-406 (produced 03/26/03) forward are set to 1.00 volt.

Options for field resolution:

1. Reduce aperture size.

Pro: Analyzer will perform within more standard parameters / published specifications. Sensor block will not peak before cycle analysis completed.

Con: Increased response time.

2. Reduce analyzer cycle time.

Pro: Response time maintained. Cycle analysis will complete before sensor peaks.

Con: Potential to have minor impact on accuracy / linearity. Reduced tape life.

3. Return sensor block to factory for adjustment.

Pro: Existing analyzer set-up remains unchanged.

Con: Shipping / handling / tracking of sensor blocks in transit. Potential analyzer downtime.