

Dear SpectraSensors Partners,

Effective August 2014, SpectraSensors has added a couple of improvements to the following analyzers. Please be aware of the advantages and the replacement considerations.

Applicable analyzers:

- SS1000 Portable H₂O analyzers
- SS500, SS2000, SS3000, SS500e, SS2000e, SS3000e H₂O analyzers
- 2-Pack and 3-Pack (H₂O channel)

Description of changes: New firmware version 2.51 E425 Rev C

- Improved peak tracking when moisture concentration is very low
- Compensation for stream changes; after updating the stream component values (ethane, CO₂, etc) in the analyzer, the analyzer will compensate accordingly
 - Updating the stream is done via modbus or with SpectraSensors AMS100 software. The stream can be set up with live inputs or as static values which can be changed occasionally.

Applicable Measurements:

- These changes impact moisture (H₂O) in natural gas analyzers only.

Benefits:

- The analyzer maintains the center of the spectral peak even when the peak is very small (when moisture is very low)
- The analyzer is not specific to one stream composition; the stream can be adjusted (limits apply – see below)
- Does not require recalibration when the stream changes over time, or when the analyzer is moved to a different stream
- One analyzer can be stocked to service several locations
- Ordering can be done without the exact composition upfront

These features will be shipping on new product going forward and the manuals have been updated.

Stream Composition Limits: The stream compensation works for any stream within Table 2. Table 2 streams are defined in the analyzer price sheets. However to obtain the best results, SpectraSensors recommends that the analyzer be calibrated in an “average” stream which is closest to the stream(s) in which the analyzer will be used.

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Upgrade Policy:

The analyzer can be upgraded in the field to take advantage of the stream composition change capability. However to obtain the new peak tracking feature, the analyzer must be returned to the factory for a new calibration. To upgrade and recalibrate, a level 1 service is required.

If you have any questions or comments about this, please do not hesitate to contact your SpectraSensors sales representative or SpectraSensors directly using the contact information below.

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