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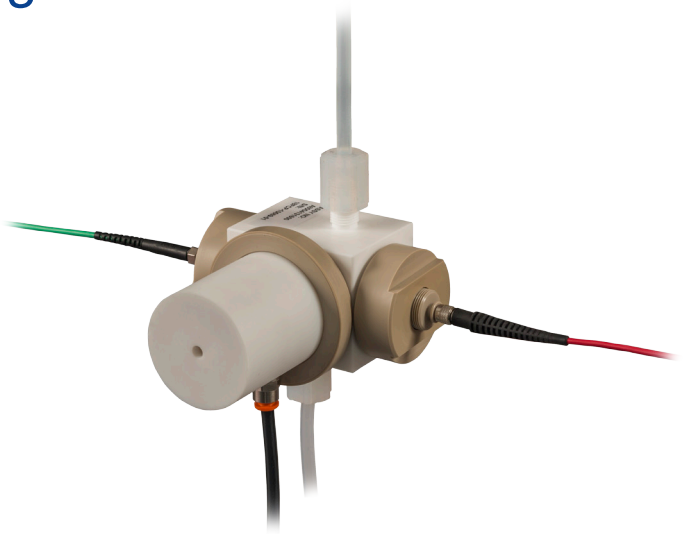
FlowCell+

New Self Calibrated High Stability Flow Cell for Concentration Monitoring

Until now, in-line fluid concentration probes used reference measurement signals generated externally to the probe. This method requires that the optical properties of the reference channel and the measurement channels remain constant between calibrations. Flowcell+ is a state of the art, patent pending flow cell that incorporates integrated self-calibration capabilities, to provide identical optical paths for the reference and measurement channels.
With Flowcell+ long term measurement stability is significantly improved, the required time between system calibrations is increased, while installation and commissioning become much easier to complete.



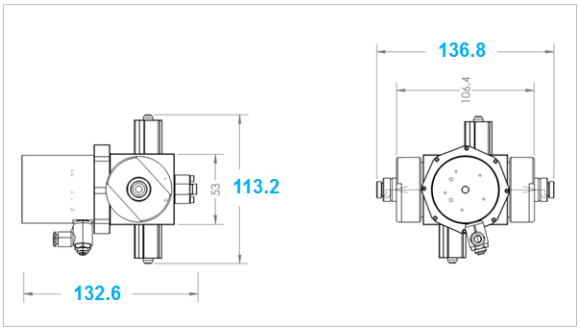
Features & Benefits

- High stability - significantly improved measurement capabilities at lower concentrations.
- Increased time between calibrations - increases tool uptime.
- Plug and Play - no need for periodic calibration (note 1).
- Improved immunity to environmental and flow cell temperature changes.
- No need for calibration after lamp replacement (note 1).
- Fluid temperature up to 75 °C.
- Wetted materials - Sapphire, TFM-PTFE and FFKM O-rings.
- Standard ¼" Flaretek ® fittings for easy installation (note 2).
- Air activated - requires 2 Atm CDA supply.
- Compatible with WetSpec concentration monitors.

Supported Applications

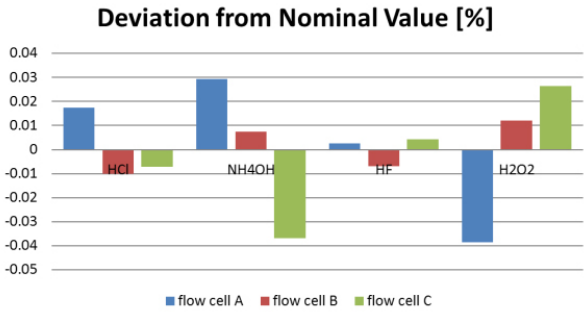
Most applications measured by the WetSpec200 analyzer (up to 75 °C (note 3)) are supported by the Flowcell+. Consult with CI experts for your specific application and expected performance.

FlowCell+

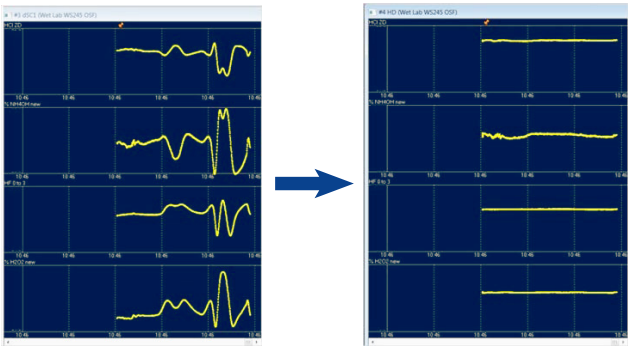


Benefits-at-a-Glance

1. **Plug and Play Operation** (note1)
The graph below shows deviation from the nominal values of new installations without calibration.

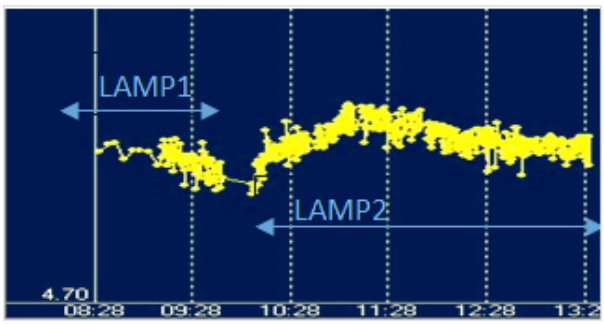


2. **Immunity to analyzer temperature variations** (quick variations up to 10 °C).
The graphs below show 4 different chemistries measured with the Flowcell+.



State of the art probe | Flowcell+ probe

3. **Lamp replacement - no need for calibration** (note1)
The graph below shows the concentration data of Flowcell+, before and after lamp replacement.



Notes

Note 1: These features depend on application, environmental conditions and accuracy requirements. Certain demanding applications may require one-point calibration at installation and/or after lamp replacement.

Note 2: Consult CI for availability of different fitting types and sizes.

Note 3: Higher temperatures are available. Please consult with CI Semi experts.

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