![VTI Vacuum Technology Inc. logo]

Maintenance of the Moisture Analyzer

⇨ **Attention: The phosphoric acid solution used for refreshing the functionality of the moisture sensor is corrosive. Please wear protective gloves and eyewear.**
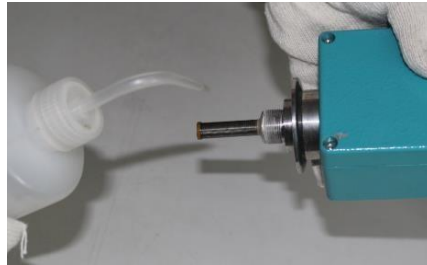
1. Disconnect the system cable before removing the moisture analyzer from the glove box

2. Unscrew the shroud (protective cage) cover from the moisture probe.
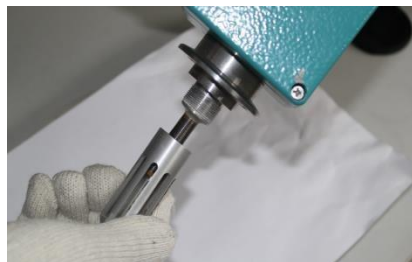
3. Apply distilled water on the sensor probe. Dry with a lint-free cloth (do not use paper towels). Handle the probe with care. Avoid excessive contact the surface of the probe.


4. **Moisten the sensor with the phosphoric acid solution by slowly dripping 10 to 15 drops directly on the probe while rotating the unit. Drip enough of the solution onto the probe until the surface is completely covered.**

   Allow the sensor to air-dry for four hours. Place a drop cloth under the probe to catch excess acid.

5. When completely dry, replace the protective shroud on the probe.
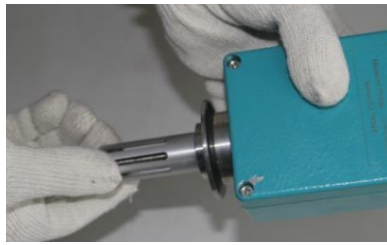
6. Confirm that the glove box is still within the pressure range of +5 mBar to +8 mBar before removing the blind flange cover and replacing the sensor in the port.

7. Reconnect the system cable after the moisture analyzer is reinstalled in the glove box.

8. On the touchscreen, touch "Analyzer" to activate the moisture analyzer.
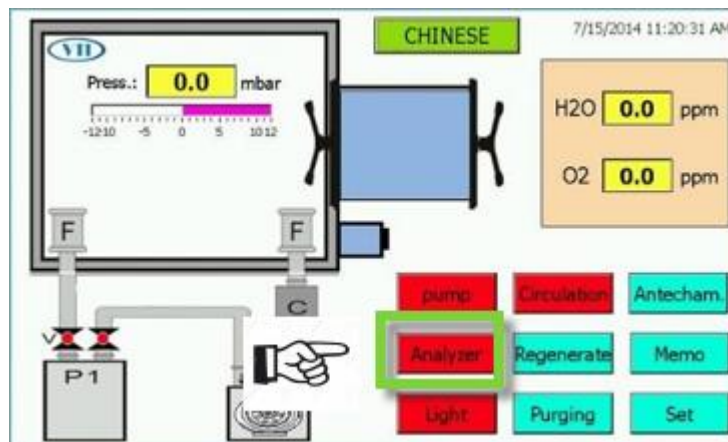
9. Log the moisture data

Note: In lithium battery and in organometallic applications, volatilized acid/alkali during operation will corrode the moisture sensor which can cause a change in electrical resistance. The displayed moisture value might be different from the actual moisture value. The degree of deviation depends on the concentration of corrosive substances as well as the thoroughness of the sensor-refreshing process. In this case, we recommend sending the analyzer to us for a free calibration within the warranty period.

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