

REFEX™
sensors ltd
“The First to Last”



Invented in
Germany



NEW PATENT - granted

REFEX™ Electrodes for Oil and Gas Process

REFEX probes are **designed specifically for reliable, accurate and stable measurement** of pH and ORP in harsh conditions. Their unique solid-state reference cell makes them resistant to processes that cause measurement errors and drift because of poisoning, sensor fouling/coating and ion diffusion.

Measurement Stability

By eliminating the porous junction found in almost all traditional electrodes, REFEX sensors provide unmatched measurement stability in aggressive applications. Experience from the field consistently shows that REFEX sensors suffer minimal signal drift over several years of operational life and require adjustment maybe only once every 90 days. By comparison, traditional electrodes in harsh applications can require the weekly check and recalibration. The excellent long-term measurement stability of REFEX electrodes can realize large savings in operational and labor costs.

No More Sensor Fouling Issues

A major problem for traditional sensor technologies in the petrochemical industry is sensor fouling where a layer of debris and/or an oily film can develop over the surface of the sensor. The porous junction in a traditional reference electrode can become contaminated by oily deposits, dramatically increasing the impedance of the junction and making the measurement sluggish. Eventually the junction becomes completely blocked and the probe ceases to measure. The entire surface of a REFEX sensor provides the electrochemical connection required for measurement. As a result, REFEX sensors are highly resistant to the effects of fouling and coating.

Instant Response

The REFEX solid state reference system responds instantly to pH changes, resulting in substantial measurement improvement in critical areas such as titration and chemical dosing. This instantaneous response prevents pH measurement over-shoot when in operation and prevents the unnecessary wastage of dosing and conditioning chemical additives.



Accurate – Low Maintenance – Long Life

Made in
Ireland

TRY-IT / BUY-IT!

free evaluation for new customers

REFEX™
sensors ltd



Typical Applications:

- Desalter Underflow
- Boiler Feed Water
- API Separators
- Sour Water Strippers
- Sour Water with H₂S and NH₃
- Stack Gas Scrubbers
- Sulphur Recover Units
- Quench Water



| EC-1"-2001- Pt1000-LE | EC-3/4"-2001- Pt1000-LE | S8-2001-120mm | YG-2001-120mm | EC-FT-2001- Pt1000- 120mm EC-FT-2001- Pt1000- 225mm |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|
| 1" NPT mount insertion/submersion sensor with fixed cable (1, 3, 5, 10m) | 3/4" NPT mount insertion/submersion sensor with fixed cable (1, 3, 5, 10m) | Ø12mm, Pg13.5 mount sensor with S8 connector | Ø12mm Yokogawa Y-cap connection Sensor | Ø12mm, Pg13.5 mount sensor with fixed cable (1, 3, 5, 10m) |

Other styles/lengths/connection types are available. Please contact us with your specific requirements.

| General Specifications: | | | |
|---------------------------|----------------------------|-------------------------------|--------------------------------------------------------|
| Range: | pH 0...12 ORP ± 1000 mV | Liquid Earth: | Optional |
| Temperature Range: | 0...100°C / 212°F | Temperature Sensor: | 100Ω/1000Ω RTD |
| Pressure Range: | Up to 20 bar / 290 psi | Standard Dimensions: | ¾" NPT, 1" NPT, 12mm x 120, 160 or 225mm |
| Liquid Earth: | Optional | Electrical Connection: | Type S8, S7, Yokogawa, others. Cable 1m, 5m, others |

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