



REFEX™
SENSORS
(EUROPE) LTD

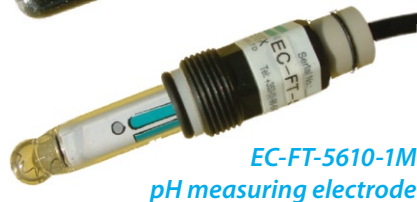
Long life pH sensors & controls for process & water industries

**Excellent performance in
Many chemical processes
Highly resistant to poisoning
H₂S, HNO₃, HCl, H₂SO₄, HF
Hg, Br, Mn, proteins, etc**

Benefits of REFEX™ in pH measurement

Patented REFEX™ pH sensors are available as combination probes and as separate electrodes. Robust construction, accurate and repeatable performance make them the ideal choice for many applications in chemically hostile and abrasive environments.

**REFEX™ reference electrode
EC-FT-5710-1M**



**EC-FT-5610-1M
pH measuring electrode**

**Temperature sensor
EC-FT-PT1000-1M**



**REFEX™ separate electrodes with
free turning collars for Flow Cell
applications**

Non porous REFEX™ in summary:

- ✓ accurate, repeatable & reliable pH measurement
- ✓ long sensor life, typically 3 to 5 times other sensors
- ✓ very low maintenance, saves down-time
- ✓ no porous junction to become blocked
- ✓ does not become poisoned
- ✓ does not leak electrolyte
- ✓ low electrical impedance
- ✓ faster response times
- ✓ has large surface contact area
- ✓ works in vacuum & upto 20bar pressure

REFEX™ sensors are especially resistant to chemical attack and poisoning because they do not have porous junctions, preventing reactions between the process and internal reference solution and failure through clogging by precipitates or oily deposits.

The REFEX™ reference electrode has replaced the need for a liquid-junction. It acts as both an immobilised electrolyte and also as a non-porous protective interface completely separating the medium under test from the internal Ag/AgCl half-cell. The entire outside surface of the REFEX™ electrode is electrochemically active and does not foul – even when completely coated (oily waste waters being a typical example). Being non-porous REFEX™ will continue to perform at pressures of up to 20 bar (290psi) and in full vacuum.

The REFEX™ pH sensor has a long operational life, typically 3 to 5 times greater than any other. Very low maintenance & recalibration requirements greatly reduce the cost of ownership & operation.

REFEX™ reliability helps ensure that you can meet process, statutory and regulatory requirements, which in turn help you maintain the process quality & profitability of your plant.

**Solid State REFEX™ reference
electrode, large surface area,
no porous junction**



**No fouling, clogging,
electrolyte leakage, or
poisoning of reference**

**Glass Measuring
Electrode**

Combination pH sensor glass & REFEX™



**3/4" NPT fitting Combination pH sensor
Robust sensor & fitting - ideal for Chemical Process Industry**

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