

OPERATING PRINCIPLE FOR SENSOREX® ELECTRODES

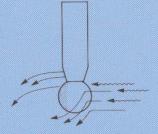
Rugged combination electrodes which have flat measuring surfaces are available for pH and for REDOX (ORP) applications. In both coating and abrasive applications these cartridge-type electrodes can improve measurement accuracy, reduce maintenance, prolong electrode life and virtually eliminate breakage.

USES INCLUDE:

- oily waste water
- lime slurries
- sugar refining
- head box pulp pH
- emulsions
- gas wet scrubbers
- flocculant coagulation
- and many more

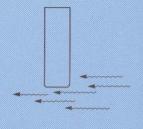
◆ SELF-CLEANING OPERATION ◆

This simple but effective system has no moving parts and requires no power. When the electrode's flat measuring surface is exposed to turbulent flow, the resulting scrubbing action provides a self-cleaning effect in most applications.



SPHERICAL ELECTRODE

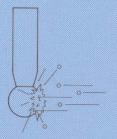
Downstream side is shielded from flow, coating forms on this "dead" flow area.



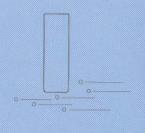
FLAT ELECTRODE
Turbulent flow scrubs entire measuring surface, there is no "dead" flow area.

ABRASION-FREE OPERATION

Particles sweep by the electrode's flat, non-protruding surface without impinging on or abrading it. Also, the electrode's non-protruding design virtually eliminates electrode breakage.



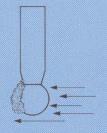
SPHERICAL ELECTRODE
Particles impinge on upstream side causing abrasion, calibration shift and short life.



FLAT SURFACE
Particles sweep by flat measuring surface
to minimize abrasion and extend electrode
life.

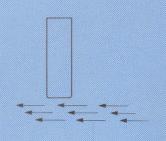
♦ VISCOUS MATERIAL OPERATION ◆

Viscous materials flow by the electrode's flat measuring surface in shear. Flow in shear causes new material to uniformily displace the old material. Having fresh material at the electrode's surface is essential for measurement accuracy.



SPHERICAL ELECTRODE

Downstream side is shielded from flow, old sample is not displaced.



FLAT SURFACE
Flow in shear uniformly displaces sample from electrode's measuring surface.

For quality sensors at the very lowest prices, ASK TRASK! We sense your needs.