



Thermo Scientific Orion ROSS Ultra and ROSS pH Electrode Feature Analysis

FEATURE	ADVANTAGE	BENEFIT
High accuracy (within 0.03 pH at 25°C)	Measures small differences in pH	<ul style="list-style-type: none"> ✓ Meets tight specs ✓ Compliance with strict regulations
Low pH drift (< 0.002 pH per day)	Stable readings every time, even at different temperatures	<ul style="list-style-type: none"> ✓ Fewer calibrations needed
High precision regardless of temperature (0.01 pH)	Consistently repeatable readings	<ul style="list-style-type: none"> ✓ Confidence in results ✓ Repeated testing is unnecessary
Speed of response to pH change or temperature differences	Faster results	<ul style="list-style-type: none"> ✓ Improved workflow ✓ Reduced operating costs
High stability at varying temperatures	No need to adjust sample temperature to match calibration temperature for reliable pH readings	<ul style="list-style-type: none"> ✓ Less operator training needed ✓ Simpler SOP
Non-silver reference cell	<p>No silver precipitant when fill solution contacts sample and no clogged junctions</p> <p>Ideal for TRIS buffered samples and samples containing sulfides or proteins</p>	<ul style="list-style-type: none"> ✓ Retains sample integrity ✓ No need to worry about sample compatibility ✓ Less cleaning required
ROSS Ultra has the longest warranty on the market	High quality and long life	<ul style="list-style-type: none"> ✓ Reduced cost of ownership