

USA BlueBook BRAND PRODUCTS

YOUR BEST VALUE!

Three-electrode design for excellent accuracy & stability



28218

Built-in two-wire transmitter feeds directly to a PLC or DCS—no controller or display required!

USA BlueBook Differential pH & ORP Electrodes

- **Rebuildable electrodes for water and wastewater applications**
- **Delivers measurements in difficult conditions where conventional electrodes fail**

USABlueBook's rugged, rebuildable pH and ORP differential electrodes use the differential measurement technique, which maintains accuracy and stability in aggressive process applications long after conventional electrodes break down. They feature an internal three-electrode design that improves on the typical two-electrode design of most pH/ORP electrodes and eliminates ground loop problems.

These double-junction electrodes have a Ryton® and Kynar® body with 1½" NPT(M) threads on both ends for immersion or in-line mounting.

Choose from standard differential electrodes or electrodes with a built-in 4-20 mA output

Standard electrodes are compatible with Hach/GLI analog controllers and transmitters, such as the sc200 on pages 1250, 1256, 1267 and 1272, the PRO-P3 on page 1279, and legacy GLI P53 controllers. They have a built-in encapsulated preamplifier that produces a signal detectable up to 2,000 feet from the controller or transmitter. The 15'L shielded cable with stripped ends extends up to 2000 feet with optional junction box and extension cable.

Electrodes with 4-20 mA output feature a built-in loop-powered 4-20 mA transmitter. This lets you feed the signal directly into a SCADA, PLC or DCS without the need for an expensive controller or display. The two-conductor twisted pair cable is 15 feet long. Order shielded instrument wire (stock # 42740) if longer runs are needed.

Note: The 4-20 mA output is non-isolated and uncalibrated. The instrument or PLC must provide 24-VDC to power the electrode, and be able to calibrate for offset and span.

DESCRIPTION	STOCK #	EACH
USABLUEBOOK STANDARD DIFFERENTIAL ELECTRODES		
Differential pH Electrode, 15'L Cable	28388	\$
Differential ORP Electrode, 15'L Cable	28389	
USABLUEBOOK DIFFERENTIAL ELECTRODES WITH 4-20 mA OUTPUT		
4-20 mA Differential pH Electrode, 15'L Cable	28218	\$
4-20 mA Differential ORP Electrode, 15'L Cable	28219	
REPLACEMENT ITEMS & ACCESSORIES		
Replacement Salt Bridges (3) & Electrolyte	28391	\$
Extension Cable, 50'L, for 28388 & 28389	28400	
Junction Box	22950	
Bulb Guard	28401	
Shielded Instrument Wire, Sold Per Foot	42740	/ft



28395

GLI LCP Differential pH & ORP Electrodes

- **Long life with unsurpassed accuracy and reliability**
- **Use only with Hach and GLI transmitters and controllers**

These field-proven probes use three electrodes instead of the two normally built into conventional probes. The end result is unsurpassed accuracy and elimination of problematic sensor ground loops. LCP (liquid crystal polymer) probes are designed for applications involving harsh chemicals.

These double-junction probes have 1½" NPT(M) threading on both ends for either submersion or in-line mounting. Probes include 5-wire 10'L cable with tinned ends.

MFR #	DESCRIPTION	STOCK #	EACH
6028P010	LCP pH Probe with 10'L Cable	28395	\$
2028R010	LCP ORP Probe with 10'L Cable	28396	
REPLACEMENT ITEMS & ACCESSORIES			
60-9765-000-001	Replacement Salt Bridge	28403	\$
25M1A1001-115	Replacement Standard Cell Solution	28405	
1W1055	5-Wire Extension Cable, 50'L	28400	
60A2F1278	LCP Bulb Protector	28401	

USA BlueBook BRAND PRODUCTS

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USA BlueBook Differential pH & ORP 1" Electrodes

- **Rebuildable pH electrodes for water and wastewater applications**
- **Use with Hach/GLI analog controllers and transmitters**

USABlueBook's rebuildable pH and ORP electrodes with differential measurement technology maintain accuracy and stability in aggressive process applications long after conventional electrodes break down. Internal three-electrode design improves on the typical two-electrode design of most pH/ORP electrodes to eliminate ground loop problems.

Electrodes feature an encapsulated preamplifier which transmits a strong signal up to 3000 feet. PPS (Ryton®) construction with 1" NPT(M) threaded ends make these electrodes ideal for in-line or submersion mounting. Electrodes include 5-wire 15'L cable.

DESCRIPTION	STOCK #	EACH
pH Probe with 15'L Cable	28392	\$
ORP Probe with 15'L Cable	28393	
REPLACEMENT ITEMS & ACCESSORIES		
Replacement Salt Bridges (3) & Electrolyte	28361	\$
Extension Cable, 50'L, for 28392 & 28393	28400	
Junction Box	22950	
Bulb Guard	28349	