

## HQd IntelliCAL Probes



Specifications	DO Luminescent Dissolved Oxygen	DO Luminescent Dissolved Oxygen	BOD Luminescent Dissolved Oxygen	Conductivity
Special Feature	LDO technology. No membranes.	LDO technology. No membranes.	LDO technology. Designed for BOD applications. No membranes	
Probe Type	Standard	Rugged	Standard	Standard
Range	DO: 0.1 - 20.0 mg/L % Saturation: 1 - 200%	DO: 0.1 - 20.0 mg/L % Saturation: 1 - 200%	DO: 0.1 - 20.0 mg/L % Saturation: 1 - 200%	Conductivity: 0.01 $\mu$ S/cm - 200 mS/cm TDS: 0 - 50,000 mg/L as NaCl Salinity: 0 - 42 g/kg or (‰) Resistivity: 2.5 $\Omega$ -cm - 49 M $\Omega$ -cm
Temp Range	Continuous Use: 0 to 50°C	Continuous Use: 0 to 50°C	Continuous Use: 0 to 50°C	Continuous Use: -10 to 110°C
Thermistor	■ (ATC)	■ (ATC)	■	■ (ATC)
Dimensions	15 mm (D) x 200 mm (L)	15 mm (D) x 220 mm (L)	15.875 mm (D)** x 200 mm (L)	14 mm (D) x 200 mm (L)
Sensor Type	Lumiphore	Lumiphore	Lumiphore	4-pole graphite
Junction	—	—	—	—
Body Material	PC/Abs	PC/Abs with Stainless Steel	PC/Abs	Noryl
Filling Solution	—	—	—	—
ISA Required	—	—	—	—
Product Number	LDO10101*	LDO10105*	LBOD10101*	CDC40101*



Specifications	ORP/Redox Combination Gel-filled	ORP/Redox Combination Refillable	ORP/Redox Combination	Ammonia Combination ISE
Special Feature	Flat disc sensor for easy cleaning. Low maintenance.	Flat disc sensor for easy cleaning.	Flat disc sensor for easy cleaning.	Dry storage.
Probe Type	Standard	Standard	Rugged	Standard
Range	$\pm$ 1200 mV	$\pm$ 1200 mV	$\pm$ 1200 mV	0.007 mg/L ( $5 \times 10^{-7}$ M) to 14,000 mg/L (1 M) NH <sub>3</sub> -N
Temp Range	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 50°C
Thermistor	■	■	■	■
Dimensions	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)
Sensor Type	Platinum disc	Platinum disc	Platinum disc	Gas sensing: glass w/ replaceable NH <sub>3</sub> sensitive membrane
Reference Type	—	—	—	Ag/AgCl
Junction	Open	Ceramic	Open	Annular
Body Material	Epoxy	Epoxy	Zeonor™ with Stainless Steel	Epoxy
Filling Solution	—	2841700	—	4447226
ISA Required	—	—	—	4447169
Product Number	MTC10101*	MTC30101*	MTC10105*	ISENH3181*

\*1 meter standard and 5 meter rugged probes described above. All standard probes available in 1 or 3 meter cable lengths. All rugged probes available in 5, 10, 15 or 30 meter cable lengths.  
\*\*Fits BOD bottle neck size > 15.875mm inside diameter



Conductivity	pH Ultra Refillable Combination	pH Gel-filled Combination	pH Refillable Combination	pH Gel-filled Combination
	Fast response time.	Low maintenance.		Low maintenance.
Rugged	Standard	Standard	Standard	Rugged
Conductivity: 0.01 $\mu\text{S}/\text{cm}$ - 200 $\text{mS}/\text{cm}$ TDS: 0 - 50,000 $\text{g}/\text{L}$ Salinity: 0 - 42 $\text{g}/\text{kg}$ or ( $\text{‰}$ ) Resistivity: 2.5 $\Omega\text{-cm}$ - 49 $\text{M}\Omega\text{-cm}$	0 to 14 pH	2 to 14 pH	0 to 14 pH	2 to 14 pH
Continuous Use: -10 to 110°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C
■ (ATC)	■ (ATC)	■ (ATC)	■ (ATC)	■ (ATC)
14 mm (D) x 220 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 220 mm (L)
4-pole graphite	Glass	Glass	Glass	Glass
—	Open	Open	Ceramic	Open
Noryl with Stainless Steel	Zeonor™	Zeonor™	Zeonor™	Zeonor™ with Stainless Steel
—	2965026	—	2841700	—
—	—	—	—	—
<b>CDC40105*</b>	<b>PHC28101*</b>	<b>PHC10101*</b>	<b>PHC30101*</b>	<b>PHC10105*</b>

**NEW!**



**NEW!**



**NEW!**



**NEW!**



Ammonium Combination ISE	Chloride Combination ISE	Fluoride Combination ISE	Nitrate Combination ISE	Sodium Combination ISE
Dry storage & fast response time. No replacement membranes.	Dry storage & fast response time. No replacement membranes.	Dry storage & fast response time. No replacement membranes.	Dry storage & fast response time. No replacement membranes.	Fast response time.
Standard	Standard	Standard	Standard	Standard
0.07 $\text{mg}/\text{L}$ ( $5 \times 10^{-6}$ M) to 7,000 $\text{mg}/\text{L}$ (0.5 M) $\text{NH}_4^+\text{-N}$	0.1 $\text{mg}/\text{L}$ ( $3 \times 10^{-6}$ M) to 35,500 $\text{mg}/\text{L}$ (1 M) $\text{Cl}^-$	0.02 $\text{mg}/\text{L}$ ( $1 \times 10^{-6}$ M) to 19,000 $\text{mg}/\text{L}$ (1 M) $\text{F}^-$	0.1 $\text{mg}/\text{L}$ ( $7 \times 10^{-6}$ M) to 14,000 $\text{mg}/\text{L}$ (1 M) $\text{NO}_3^-\text{-N}$	0.023 $\text{mg}/\text{L}$ ( $1 \times 10^{-6}$ M) to 23,000 $\text{mg}/\text{L}$ (1 M) $\text{Na}^+$
Continuous Use: 0 to 50°C	Continuous Use: 5 to 50°C	Continuous Use: 5 to 50°C	Continuous Use: 0 to 50°C	Continuous Use: 0 to 50°C
■	■	■	■	■
12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)
Solid-state PVC membrane	Solid-state disc	Solid-state crystal	Solid-state PVC membrane	Glass
Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl
Annular	Annular	Annular	Annular	Ceramic
Epoxy	Epoxy	Epoxy	Epoxy	Zeonor™
—	—	—	—	2965126
2980699	2318069	258999	2984799	4451569
<b>ISENH4181*</b>	<b>ISEC181*</b>	<b>ISEF121*</b>	<b>ISENO3181*</b>	<b>ISENa38101*</b>