



INDUSTRIAL pH INSTRUMENTATION & ELECTRONICS

Retractable Lock-N-Load ALpHA® pH/ORP Electrode Assemblies

LK Series

The retractable Lock-N-Load sensor assemblies are all you need to install a pH or ORP electrode into any pipeline. This is the first assembly that doesn't require ball valves, cables or costly, complex hardware to quickly insert or remove an electrode from a pipeline without interrupting the process. The simplicity of its design is what makes it unique. A quarter turn, a pull, and the electrode assembly is sealed from line pressure. The sensor can be removed to check calibration. It's safer too, because the end cap seals from the outside, unlike other insertion assemblies that rely upon valves and cables. Constructed of CPVC, PVDF or stainless steel allows this assembly to be used in waste water or process control. A wide selection of pH and ORP electrodes is available for the retractable sensor assembly. The electrodes feature a sealed gel-filled reference with an annular ceramic junction.



To Order

Retractable Lock-N-Load Assembly

Model No.	Material	Thread Size	Pressure Rating	Temperature Range °C (°F)
LK-CP	CPVC	1½ MNPT	100 psi	-5 to 80 (32 to 176)
LK-K	PVDF	1½ MNPT	100 psi	-5 to 100 (123 to 212)
LK-SS	316SS	1 MNPT	150 psi	-5 to 120 (123 to 248)



End cap seal and electrode, shown within pipe line. A quarter turn, and a pull seals the electrode assembly from line pressure.



Electrode can be easily replaced or re-calibrated without interfering with the process.

In-Line Flow Cell

Model No.	Material	Pressure Rating	Temp. Rating °C (°F)	Electrode	Ports
LKFC-CP	CPVC	100 psi	-5 to 80 (23 to 176)	1½ NPT	2 NPT
LKFC-K	PVDF	100 psi	-5 to 100 (23 to 212)	1½ NPT	1 NPT
LKFC-SS	316SS	150 psi	-5 to 120 (23 to 248)	1 NPT	1 NPT

Flow Cell Installation Reducer Adaptors Reducer for Reducing CPVC and 316 SS Ports.

Flow Model No.	Material	Port Cell Size	Size
LKFC-CP-1	CPVC	2" male socket	½ FNPT
LKFC-CP-2	CPVC	2" male socket	¾ FNPT
LKFC-CP-3	CPVC	2" male socket	1 FNPT
LKFC-CP-4	CPVC	2" male socket	1½ FNPT
LKFC-SS-1	316 SS	1 MNPT	½ FNPT
LKFC-SS-2	316 SS	1 MNPT	¾ FNPT

Temperature Compensator

Model No	Description
LKTC-CP-10-(*)	CPVC ATC for use with LKFC-CP flow cell
LKTC-K-10-(*)	PVDF ATC for use with LKFC-K flow cell
LKTC-SS-10-(*)	316 SS ATC for LKFC-SS flow cell

* For temperature compensation specify: "PT100" for 100 Ω platinum RTD; or "PT1000" for 1000 Ω platinum RTD, for additional cost.

Electrodes

Model No.	Description
LKPHE-3592-10	General purpose, single junction, temperature range -5 to 100°C, pH range 0 to 12
LKPHE-4576-10	High pH, single junction, temperature range -5 to 100°C, pH range 0 to 14
LKPHE-3781-10	Ideal for organic compounds which react with silver, double junction, temperature range -5 to 100°C, pH range 0 to 12
LKPHE-4739-10	Ideal for organic compounds which react with silver, double junction, temperature range -5 to 100°C, pH range 0 to 14
LKORE-9686-10	General purpose ORP, platinum band, single junction, temperature range -5 to 100°C
LKORE-9880-10	ORP ideal for compounds which react with silver, platinum band, double junction, temperature range -5 to 100°C

Comes complete with operator's manual.

All electrodes supplied with 3.3 m (10') cable and spade lug connections standard.

To order with BNC connector, add suffix "-BNC" to model number, for additional cost.

Ordering Example: LK-CP, retractable Lock-N-Load assembly, LKFC-CP, in-line flow cell, LKFC-CP-1, flow cell reducer adaptor, LKPHE-3592-10, general purpose pH electrode, LKTC-CP-10-PT100, CPVC ATC with 100 Ω RTD.