KANAGAWA INSTRUMENTS

Industrial pH Probe

Model : KPOS-I



Description

KPOS-I is a specialized pH sensor designed to deliver reliable measurements in harsh organic solvent and non-aqueous applications. Unlike conventional pH electrodes that degrade in aggressive chemical media, the KPOS-I features a rugged reference system and specialized glass membrane that resist dehydration, contamination, and chemical attack commonly found in non-water-based solutions.

Ideal for chemical synthesis, pharmaceutical manufacturing, petrochemical processing, and industrial quality control, this sensor ensures stable performance across a wide pH range, even in low-ion-conductivity media. Its robust construction minimizes drift and extends service life, reducing maintenance frequency and total cost of ownership. The KPOS-I offers fast response, high accuracy, and excellent reproducibility, making it a trusted choice for process monitoring where standard electrodes fail. Compatible with most industrial transmitters, it enables seamless integration into existing measurement systems. Whether monitoring acidic or alkaline organic solvents, the KPOS-I delivers consistent, dependable results you can count on.

Product Features

Designed for Organic Solvent and Non-aqueous Environment.

The newly designed glass bulb increases the bulb area, prevents the generation of interfering bubbles in the internal buffer, and makes the measurement more reliable. The KPOS-I adopts a PP shell, upper and lower NPT3/4" pipe threads, making it easy to install without the need for a sheath and reducing installation costs. The electrode integrates pH measurement, reference, solution grounding, and temperature compensation.

Applications

Using gel and solid electrolyte double liquid junction structure, can be directly used in high viscosity suspension, emulsion, containing protein and other liquid parts of the chemical process easily blocked;

Waterproof joint, can be used for pure water detection;

No need to supplement the electrolyte, small maintenance;

Adopt BNC or NPT 3/4" thread socket, can be used for foreign electrode interchange;

The electrode length of 120, 150, 210 mm can be selected according to the need;

Used with 316L stainless steel sheath or PPS sheath.

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Technical Specification

Model No.	KPOS-I
pH zero point	7.00±0.25pH
Reference system	SNEX(yellow) Ag/AgCl/KCl
Electrolyte solution	Saturated LiCl solution
Membrane resistance	<500MΩ
Housing material	PP
Liquid junction	SNEX
Waterproof grade	IP68
Measurement range	0-14pH
Accuracy	±0.05pH
Pressure resistance	≤0.6Mpa
Temperature compensation	NTC10K,PT100,PT1000 (Optional)
Temperature range	0-80℃
Calibration	Sample calibration, standard liquid calibration
Double Junction	Yes
Cable length	Standard 10m cable, can be extended to 100m
Installation thread	NPT3/4”
Application	Organic Solvent and Non-aqueous Environment.

Technical Drawing

