

SPX530 Series Optical Online Concentration Meter

MAIN FEATURES

- 4-wire transmitter adopts an integrated structure, no moving parts and easy maintenance
- Three-digit concentration value display, one decimal place, real-time current and temperature indication
- Can directly enter the instrument menu to set parameters
- Easy to install and use, the reading can be displayed when liquid is loaded.
- Used for fluid or static liquid, suitable for pipeline installation or installation on container wall
- With 0 point fine-tuning, measured value fine-tuning and temperature compensation function
- Continuous online measurement of liquid concentration without process interruption can be directly used for production process control.
- All parts in contact with liquid are made of 316 stainless steel or polytetrafluoroethylene, which is safe, hygienic and good in corrosion resistance.



OVERVIEW

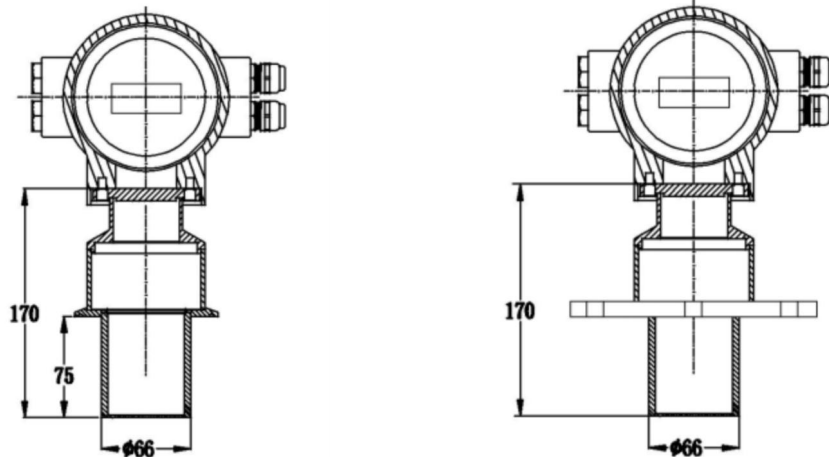
SPX530 optical online concentration meter adopts the diffusion law of the spectrum in the liquid. It is sampled by a high-resolution spectrum sensor, analyzed and processed by the software to obtain the regularity of the concentration, and then through temperature compensation, it can measure various liquids or The concentration of the liquid mixture. The liquid must have a certain degree of transparency; in the petrochemical industry, it can be widely used in the detection of petroleum, oil refining, and oil blending; in the food industry, it can be used in production sites such as grape juice, tomato juice, fructose syrup, vegetable oil and soft drink processing; dairy industry; papermaking Industry; black pulp, green pulp, white pulp, alkali solution measurement; wine alcohol content; chemical industry urea, detergent, ethylene glycol, acid and alkali and polymer density measurement. It can also be used in mining brine, potash, lubricating oil, biopharmaceutical and other industries. It is suitable for pipe installation or installation at the container wall.

SPECIFICATION

Measuring medium	trace particles, transparent and pure liquid
Velocity	>1.5m/sec
Maximum liquid viscosity	5000mpa.s
Output signal	Output signal 4~20mA
Power source	12~30VDC
Concentration range	0~ 100% (20°C), can be calibrated to a certain range according to usage
Accuracy	0.5%
Repeatability	±0.2%
Process temperature influence (corrected)	±0.001% (per ° C)
Explosion-proof grade	Intrinsically safe Exiall CT6
Electrical interface	M20X1.5 (1/2NPT-14)
Process connection	flange or Clamp
Wetted material	316 stainless steel (or polytetrafluoroethylene)
Process temperature	-10°C to +60°C
Ambient temperature	-10°C to +45°C
Shell	Ip65, aluminum alloy
Maximum working pressure	0.8Mpa

DIMENSION

Unit:mm



• Guide for liquid and material compatibility of densitometers

Liquid type	Name	Molecular formula	Concentration (%)	Zirconium	Ha C	Stainless steel
acid	hydrochloric acid	HCl	0-40	☆	○	×
	sulphuric acid	H ₂ SO ₄	0-50	☆	○	○
		H ₂ SO ₄	50-75	○	○	×
		H ₂ SO ₄	75-98	○	○	○
	nitric acid	HNO ₃	0-100	☆	○	○
phosphoric acid	H ₃ PO ₄	0-98	×	☆	○	
alkali	sodium hydroxide	NaOH	0-100	×	☆	○
	Potassium hydroxide	KOH	0-50	☆	☆	○
	calcium hydroxide	Ca(OH) ₂	0-50	○	☆	○
others	Urea (urea)	(NH ₂) ₂ CO	0-100	☆	☆	×
	sodium hypochlorite	NaOCl	0-16	×	○	×
	hydrogen peroxide	H ₂ O ₂	0-90	×	☆	☆

☆Recommended ○ use under specific concentration and temperature limit × not use

APPLICATION



ORDER CODE

SPX530	densitometer						
	CODE	Range					
	A	0~40%					
	B	0~100%					
	C	More customized					
	CODE	Insertion length					
	D	75mm					
	C	More customized					
	CODE	Process connection					
	S	DN80 flange					
	H	3.5" Clamp					
	C	More customized					
	CODE	Wetted material					
	A	316L					
	C	More customized					
	CODE	Cleaning device					
	1	With					
	2	Without					
CODE	Signal output						
A	4 -20 mA						
C	More customized						
SPX530	A	D	S	A	1	A	Order example