

UGS Series color quartz glass level meters

Summary

UGS series color quartz glass level meters with performance of on site indication are made of high-purity quartz tube(99.99%SiO₂).These meters featured with distinct indication good sealing performance high temperature resistance high pressure resistance anti-viscosity long life convenient rinse and maintenance are widely used to detect and indicate the levels of various vessels and boilers in petroleum chemical industry power metallurgy industry etc.

UGS-A standard color quartz glass level meter is suitable for measuring level of multiple hydrocarbons and oil solutions which are transparent or more transparent medias such as: water liquid ammonia petroleum gasol and alkali liquor at room temperature.It's a widely used on site level meter without blind zone when displaying.

UGS-B/E conventional color quartz glass level meter is suitable for measuring level of multiple hydrocarbons and oil solutions which are transparent or more transparent medias such as: water liquid ammonia petroleum gasol and alkali liquor at room temperature.But there's blind zone when displaying.

UGS-C corrosion resistant color quartz glass level meter is suitable for acidic or alkaline liquids etc.and many organic solvents(especially activity group solvent)while it isn't suitable for measurement of liquid medias such as concentrated nitric acid chromic acid mixture chlorinated solvents aliphatic and aromatic hydrogen.

UGS-D corrosion resistant color quartz glass level meter is suitable for measuring level of corrosive media and level in higher working temperature occasions.Since it adopts the combination of stainless steel with inner lining of polytetrafluoroethylene tee and straight pipes,it has high reliability.However,the disadvantage is that there exists upper and lower blind zone when measuring

Structure and principle

The upper and lower connection flanges connect UGS series color quartz glass level meters with the vessel to compose a communicating vessel,the actual level height of media in vessel can be observed directly.The product adopts optical principle that natural light refracts in liquid.When measuring ,make the liquid be green and gas be red,since they have great contrast,the idication can be distinct and clear.

UGS-A level meter uses elbow to connect main body and valve to eliminate the stress generated by the installation and heat expansion and cold contract effectively.It's featured with installation size error adjustment and easy installation. There are safety steel balls installed in the upper and lower valve,when the glass damages accidently,the steel balls under the pressure in the vessel will automatically seal to stop the liquid flowing out.

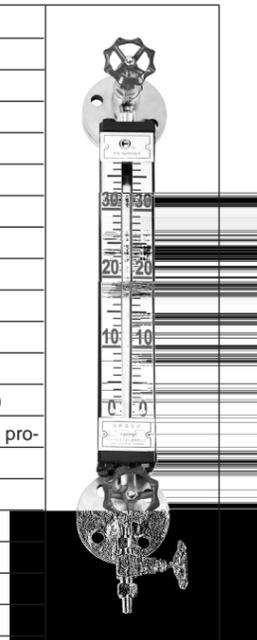
UGS-B series conventional color quartz glass level meters aren't equipped with security check valves,the ones with security check valves are series UGS-E.

UGS-C level meter which adopts inner lining of PP for parts touching the liquid(e.g. valve) can be suitable for most corrosive medias.

UGS-D level meter which adopts the combination of tee and straight pipes with inner lining of PTFE can be suitable for most corrosive medias.

Technical parameters

Measuring range:	(300 2000)mm
Working pressure:	UGS-A B E 0.6 1.6 2.5 4.0 6.4 10.0MPa
	UGS-C 0.6MPa
	UGS-D 1.6 2.5MPa
Working temperature:	UGS-A B E -50 350
	UGS-C -20 80
	UGS-D -20 150
Process connection:	HG20592 20635-97 DN20(DN25 DN40)Convex or plane
	Other flange standard((e.g. GB JB/T HGJ ANSI DIN etc.)users should note it in the order.
The material touching the liquid:	UGS-A B E Carbon steel 304 316L
	UGS-C Stainless steel with inner lining of PP
	UGS-D Stainless steel with inner lining of PTFE
Display range:	UGS-A without blind zone:Measuring range(L)-100mm
	UGS-B C D E:Measuring range(L)-200mm
Valve sealing automatically pressure difference: 0.2MPa	
Heat tracing steam jacket pressure:1.0MPa	Steam jacket joint G1/2"external thread
Heat tracing circulating water jacket:1.0MPa	Circulating water jacket joint:G3/4external thread
Sewage valve:Ball valve needle valve	



Type selection chart

UGS-	Color quartz glass level meter		
	A	Standard type,without blind zone,with safety device,with sewage valve,temperature-50 350	Basic type
	B	Conventional type,with safety device,with sewage valve,temperature-50 350	
	C	Corrosion resistant type,stainless steel with inner lining of PP,temperature 80	
	D	Corrosion resistant type,stainless steel with inner lining of PTFE,temperature 150	
	E	Conventional type,with security check valve,with sewage valve,temperature-50 350	
		Carbon steel	Material
		Stainless steel	
		06	Working pressure
		10	
		16	
		25	
		40	
		63	
		20	Connection bore
		25	
		40	
		FF	Flange sealing surface
		M	
			Measuring range
		Measuring range,unit mm	
		J1	Heat tracing options
		J2	
UGS-			

