

# Selection Table

## XCAI3351LT - Differential pressure level transmitter

The diaphragm of the differential pressure level transmitter is used to prevent the medium in the pipeline from directly entering the pressure sensor assembly of the differential pressure transmitter, and the filling liquid such as silicone oil is used to transfer the pressure between it and the transmitter.



The XCAI3351LT level transmitter is used to measure the level, density, pressure, and flow of a liquid, gas, or steam, and then convert it into a 4 to 20mA DC HART current signal output. The XCAI3351LT can also communicate with the RST375 handheld terminal or the RSM100 Modem for parameter setting and process monitoring. The measuring range of the XCAI3051LT series level transmitter (when not migrated) is 0-1kPa ~ 2MPa, and the rated pressure of the level flange is 1.6/4MPa, 6.4MPa, 10MPa, 150psi, 300psi or 600psi.

XCAI3351LT - Differential pressure level transmitter Selection					
10	Accuracy				
	B	±0.075%			
20	量程				
	B	0-200Pa~6kPa (0-20~600 mmH <sub>2</sub> O) /(0-2~60mbar)			
	C	0-400Pa~40kPa (0-40~4000 mmH <sub>2</sub> O) /(0-40~400mbar)			
	D	0-2.5kPa~250kPa (0-0.25~25 mH <sub>2</sub> O) /(0-25~2500mbar)			
	F	0-30kPa~3MPa (0-3~300 mH <sub>2</sub> O) /(0-0.3~30bar)			
30	Static pressure chip				
		0	NONE		
40	Diaphragm material			Filling liquid	
	A	SS 316L		silicone oil	
50	Rated working pressure				
		1	16MPa		
60	过程连接				
			LN	1/4"NPT and 7/16" UNF Threaded hole no Relief Valve	
			LB	1/4"NPT and 7/16"UNF Threaded hole Relief Valve Installed on the back of flange	
			LU	1/4"NPT and 7/16"UNF Threaded hole Relief Valve Installed on the top of flange	
			LD	1/4"NPT and 7/16"UNF Threaded hole Relief Valve Installed on the bottom of flange	
			LR	7/16 inch UNF threaded hole, positive pressure level flange, negative pressure side long-range flange	
70	Liquid seal material				
			N	(NBR) Nitrile rubber	
			F	(FKM) Fluororubber	
			P	(PTFE)	

80	Special functions													
													N	NONE
													F	Square root output
													P	Lightning protection function
90	Mounting bracke													
													N	NONE
100	Negative cavity process connectors													
													N	None
													1	1/2" NPT Internal thread Stainless Steel Oval flange
													2	M20x1.5 External thread SS T-connect
110	Display													
													N	None
													2	LED backlight LCD display (-20℃)
													3	OLED Display (-40℃)
120	Explosion proof option													
													N	Typical
													A	NEPSI intrinsic safety type
													D	NEPSI intrinsic safety type
													B	ATEX intrinsic safety type
													E	ATEX flame-proof type
130	Number location													
													N	NONE
													1	Number on the nameplate
													2	Hanging stainless steel sign
140	Instructions													
													C	Chinese
													E	English
150	Others													
													S	SS watchcase
													V	Low voltage version
													T	Electrical connection NPT1/2 (no cable introduction and blind plugging)
													1	Third Party Calibration Report (5-Point Inspection)
													2	Third Party Calibration Report (9-Point Inspection)
													M	485-Modbus communication protocol
													P	Profibus PA communication protocol
<b>Flange Part Selection of Liquid Level Transmitter</b>														
10	Fluid sealing device													
	LT-	Liquid level flange, ⊕Side without capillaries												
20		Process connection	nominal diameter	Seal Form				Diaphragm/seal material						
		A	DN50 DIN 2501/HG20592	RF DN2526				SS 316L						

	B	DN50 DIN 2501/HG20592	RF	DN2526	Hastelloy C
	C	DN50 DIN 2501/HG20592	RF	DN2526	Tantalum
	H	DN80 DIN 2501/HG20592	RF	DN2526	SS 316L
	I	DN80 DIN 2501/HG20592	RF	DN2526	Hastelloy C
	G	DN80 DIN 2501/HG20592	RF	DN2526	Tantalum
	R	DN100 DIN 2501/HG20592	RF	DN2526	SS 316L
	S	DN100 DIN 2501/HG20592	RF	DN2526	Hastelloy C
	T	DN100 DIN 2501/HG20592	RF	DN2526	Tantalum
	D	DN2" ANSI B 16.5/HG20592	RF	ANSI B 16.5	SS 316L
	E	DN2" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Hastelloy C
	F	DN2" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Tantalum
	K	DN3" ANSI B 16.5/HG20592	RF	ANSI B 16.5	SS 316L
	L	DN3" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Hastelloy C
	M	DN3" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Tantalum
	N	DN4" ANSI B 16.5/HG20592	RF	ANSI B 16.5	SS 316L
	O	DN4" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Hastelloy C
	P	DN4" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Tantalum
30		Rated pressure	pressure rating	Flange Pressure Standard	Flange material
	1	PN 1MPa/4MPa (DN50, DN80)		DIN 2501/HG20592	SS304
	2	PN 6.4MPa (DN50, DN80)		DIN 2501/HG20592	SS304
	3	PN 10MPa (DN50, DN80)		DIN 2501/HG20592	SS304
	6	Class150 (DN2, DN3)		ANSI B 16.5/HG20615	SS304
	7	Class300 (DN2, DN3)		ANSI B 16.5/HG20615	SS304
	8	Class600 (DN2, DN3)	ANSI B 16.5/HG20615(Excluding DN4 ANSI B 16.5)		SS304
	4	PN 1MPa/1.6MPa (DN100)		DIN 2501/HG20592	SS304
	5	PN 2.5MPa/4MPa (DN100)		DIN 2501/HG20592	SS304
	9	Class150 (DN40)		ANSI B 16.5/HG20615	SS304
	0	Class300 (DN40)		ANSI B 16.5/HG20615	SS304
	A	PN 1MPa/4MPa (DN50, DN80)		DIN 2501/HG20592	SS 316L
	B	PN 6.4MPa (DN50, DN80)		DIN 2501/HG20592	SS 316L
	C	PN 10MPa (DN50, DN80)		DIN 2501/HG20592	SS 316L
	F	Class150 (DN2, DN3)		ANSI B 16.5/HG20615	SS 316L
	G	Class300 (DN2, DN3)		ANSI B 16.5/HG20615	SS 316L
	H	Class600 (DN2, DN3)	ANSI B 16.5/HG20615(Excluding DN4 ANSI B 16.5)		SS 316L
	D	PN 1MPa/1.6MPa (DN100)		DIN 2501/HG20592	SS 316L
	E	PN 2.5MPa/4MPa (DN100)		DIN 2501/HG20592	SS 316L
	I	Class150 (DN40)		ANSI B 16.5/HG20615	SS 316L
	J	Class300 (DN40)		ANSI B 16.5/HG20615	SS 316L
40		Connection type			
	F	Flat			
	H	plug-in, SS 316L	Insert length 50mm	Simple material stainless steel 316	
	I	plug-in, SS 316L	Insert length 100mm	Simple material stainless steel 316	
	G	plug-in, SS 316L	Insert length 150mm	Simple material stainless steel 316	
	L	plug-in, Hastelloy C	Insert length 50mm	Simple material stainless steel 316	

				M	plug-in, Hastelloy C	Insert length 100mm	Simple material stainless steel 316
				N	plug-in, Hastelloy C	Insert length 150mm	Simple material stainless steel 316
50					Filling liquid		
				S	silicone oil	-30~200℃	
				V	vegetable oil	0~250℃	
				F	Fluorine Oil	-30~260℃	
60					Liquid flange film box form (optional)		
				NN	None		
				22	DN50/2 coating PFA (superfluoroalkylate)		(temperature ≤260℃)
				23	DN80/3 coating PFA (superfluoroalkylate)		(temperature ≤260℃)
				24	DN100/4 coating PFA (superfluoroalkylate)		(temperature ≤260℃)
				32	DN50/2 diaphragm adhesive PTFE film (PTFE)		(temperature ≤200℃)
				33	DN80/3 diaphragm adhesive PTFE film (PTFE)		(temperature ≤200℃)
				34	DN100/4 diaphragm adhesive PTFE film (PTFE)		(temperature ≤200℃)
				52	DN50/2 PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 50mm)
				53	DN80/3 PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 50mm)
				54	DN100/4 PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 50mm)
				55	DN50/2 PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 100mm)
				56	DN80/3 PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 100mm)
				57	DN100/4 PFA (superfluoroalkylate)(temperature ≤260℃)		(insertion depth 100mm)
				58	DN50/2 coated PFA(superfluoroalkylate)(temperature ≤260℃)		(insertion depth 150mm)
				59	DN80/3 coated PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 150mm)
				60	DN100/4 coated PFA (superfluoroalkylate) (temperature ≤260℃)		(insertion depth 150mm)
				06	Anti-vacuum treatment		
				72	DN50/2 gold-plating		
				73	DN80/3 gold-plating		
				74	DN100/4 gold-plating		
				08	Oil prohibited treatment		
<b>Liquid Level Transmitter Reference Measurement Flange Partial Selection (Optional)</b>							
10	Fluid sealing device						
	RL-	⊙ side of the capillary					
20		Process connection	nominal diameter	Seal Form	Diaphragm/seal material		
	A	DN50 DIN 2501/HG20592		RF DN2526	SS 316L		
	B	DN50 DIN 2501/HG20592		RF DN2526	Hastelloy C		
	C	DN50 DIN 2501/HG20592		RF DN2526	Tantalum		
	H	DN80 DIN 2501/HG20592		RF DN2526	SS 316L		
	I	DN80 DIN 2501/HG20592		RF DN2526	Hastelloy C		
	G	DN80 DIN 2501/HG20592		RF DN2526	Tantalum		
	R	DN100 DIN 2501/HG20592		RF DN2526	SS 316L		
	S	DN100 DIN 2501/HG20592		RF DN2526	Hastelloy C		
	T	DN100 DIN 2501/HG20592		RF DN2526	Tantalum		
	D	DN2" ANSI B 16.5/HG20592		RF ANSI B 16.5	SS 316L		
	E	DN2" ANSI B 16.5/HG20592		RF ANSI B 16.5	Hastelloy C		
	F	DN2" ANSI B 16.5/HG20592		RF ANSI B 16.5	Tantalum		

		K	DN3" ANSI B 16.5/HG20592	RF	ANSI B 16.5	SS 316L
		L	DN3" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Hastelloy C
		M	DN3" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Tantalum
		N	DN4" ANSI B 16.5/HG20592	RF	ANSI B 16.5	SS 316L
		O	DN4" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Hastelloy C
		P	DN4" ANSI B 16.5/HG20592	RF	ANSI B 16.5	Tantalum
30			Rated pressure	pressure rating	Flange Pressure Standard	Flange material
		1	PN 1MPa/4MPa (DN50, DN80)		DIN 2501/HG20592	SS304
		2	PN 6.4MPa (DN50, DN80)		DIN 2501/HG20592	SS304
		3	PN 10MPa (DN50, DN80)		DIN 2501/HG20592	SS304
		6	Class150 (DN2, DN3)		ANSI B 16.5/HG20615	SS304
		7	Class300 (DN2, DN3)		ANSI B 16.5/HG20615	SS304
		8	Class600 (DN2, DN3)	ANSI B 16.5/HG20615(Excluding DN4 ANSI B 16.5)		SS304
		4	PN 1MPa/1.6MPa (DN100)		DIN 2501/HG20592	SS304
		5	PN 2.5MPa/4MPa (DN100)		DIN 2501/HG20592	SS304
		9	Class150 (DN40)		ANSI B 16.5/HG20615	SS304
		0	Class300 (DN40)		ANSI B 16.5/HG20615	SS304
		A	PN 1MPa/4MPa (DN50, DN80)		DIN 2501/HG20592	SS 316L
		B	PN 6.4MPa (DN50, DN80)		DIN 2501/HG20592	SS 316L
		C	PN 10MPa (DN50, DN80)		DIN 2501/HG20592	SS 316L
		F	Class150 (DN2, DN3)		ANSI B 16.5/HG20615	SS 316L
		G	Class300 (DN2, DN3)		ANSI B 16.5/HG20615	SS 316L
		H	Class600 (DN2, DN3)	ANSI B 16.5/HG20615(Excluding DN4 ANSI B 16.5)		SS 316L
		D	PN 1MPa/1.6MPa (DN100)		DIN 2501/HG20592	SS 316L
		E	PN 2.5MPa/4MPa (DN100)		DIN 2501/HG20592	SS 316L
		I	Class150 (DN40)		ANSI B 16.5/HG20615	SS 316L
		J	Class300 (DN40)		ANSI B 16.5/HG20615	SS 316L
40			Connection type			
		F	Flat			
		H	plug-in, SS 316L	Insert length 50mm	Simple material stainless steel 316	
		I	plug-in, SS 316L	Insert length 100mm	Simple material stainless steel 316	
		G	plug-in, SS 316L	Insert length 150mm	Simple material stainless steel 316	
		L	plug-in, Hastelloy C	Insert length 50mm	Simple material stainless steel 316	
		M	plug-in, Hastelloy C	Insert length 100mm	Simple material stainless steel 316	
		N	plug-in, Hastelloy C	Insert length 150mm	Simple material stainless steel 316	
50			Filling liquid			
		S	silicone oil	-30~200℃		
		H	High Temperature Silicon Oil	-10~350℃		
		U	Ultra High Temperature Silicon Oil	-10~400℃		
		V	vegetable oil	0~250℃		
		F	Fluorine Oil	-30~260℃		
60			Capillary tube lengths		Capillary material	
		01	1m	SS304		
		02	2m	SS304		

				03	3m	SS304
				04	4m	SS304
				05	5m	SS304
				06	6m	SS304
				07	7m	SS304
				08	8m	SS304
				09	9m	SS304
				10	10m	SS304
				11	11m	SS304
				12	12m	SS304
				...	...	
				51	1m	SS 316L
				52	2m	SS 316L
				53	3m	SS 316L
				54	4m	SS 316L
				55	5m	SS 316L
				56	6m	SS 316L
				57	7m	SS 316L
				58	8m	SS 316L
				59	9m	SS 316L
				60	10m	SS 316L
				61	11m	SS 316L
				62	12m	SS 316L

60					Capillary component characteristics (optional)	
				N	None	
				P	Capillary with PVC protective layer	
60					Liquid flange film box form (optional)	
				NN	None	
				22	DN50/2 coating PFA (superfluoroalkylate)	(temperature ≤260°C)
				23	DN80/3 coating PFA (superfluoroalkylate)	(temperature ≤260°C)
				24	DN100/4 coating PFA (superfluoroalkylate)	(temperature ≤260°C)
				32	DN50/2 diaphragm adhesive PTFE film (PTFE)	(temperature ≤200°C)
				33	DN80/3 diaphragm adhesive PTFE film (PTFE)	(temperature ≤200°C)
				34	DN100/4 diaphragm adhesive PTFE film (PTFE)	(temperature ≤200°C)
				52	DN50/2 PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 50mm)
				53	DN80/3 PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 50mm)
				54	DN100/4 PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 50mm)
				55	DN50/2 PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 100mm)
				56	DN80/3 PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 100mm)
				57	DN100/4 PFA (superfluoroalkylate)(temperature ≤260°C)	(insertion depth 100mm)
				58	DN50/2 coated PFA(superfluoroalkylate)(temperature ≤260°C)	(insertion depth 150mm)
				59	DN80/3 coated PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 150mm)
				60	DN100/4 coated PFA (superfluoroalkylate) (temperature ≤260°C)	(insertion depth 150mm)

					06	Anti-vacuum treatment
					72	DN50/2 gold-plating
					73	DN80/3 gold-plating
					74	DN100/4 gold-plating
					08	Oil prohibited treatment