

# Selection Table

## XCAI3351RD - Differential Pressure Remote Transmitter



The diaphragm of the differential pressure remote 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 XCAI3351RD differential pressure remote 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 XCAI3351RD can also communicate with the RST375 handheld terminal or the RSM100 Modem for parameter setting and process monitoring. The RP2001 differential pressure remote transmitter has a measuring range (when not migrated) of 0-1kPa ~ 2MPa, and the rated pressure of the remote transmission flange is: 1.6/4MPa, 6.4MPa, 10MPa, 150psi, 300psi or 600psi.

XCAI3351RD-Differential Pressure Remote Transmitter Selection									
10	Accuracy								
	B	±0.075%							
20	Range								
	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	Process connection								
					RN	1/4"NPT and 7/16" UNF Threaded hole no Relief Valve			
					RB	1/4"NPT and 7/16"UNF Threaded hole Relief Valve Installed on the back of flange			
					RU	1/4"NPT and 7/16"UNF Threaded hole Relief Valve Installed on the top of flange			
					RD	1/4"NPT and 7/16"UNF Threaded hole Relief Valve Installed on the bottom of flange			
					RR	7/16 inch UNF threaded hole, double remote flange			
70	Liquid seal material								
					N	(NBR) Nitrile rubber			
80	Special functions								
						N	NONE		
						F	Square root output		
						P	Lightning protection function		

90	Mounting bracket												
												N	None
												1	SS
												2	Carbon steel galvanizing
100	Process connection accessories												
												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>Basic Differential Pressure Long-distance Transmission Transmitter Long-range Sealing Device Selection</b>													

10	Basic differential pressure remote sealing device				
	RH-	with capillary ⊕ side			
	RL-	with capillary ⊖ side			
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°C
				H	High Temperature Silicon Oil		-10~350°C
				U	Ultra High Temperature Silicon Oil		-10~400°C
				V	vegetable oil		0~250°C
				F	Fluorine Oil		-30~260°C
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		
				N	None		
				P	Capillary with PVC protective layer		