



Level



Pressure



Flow



Temperature

Liquid
Analysis

Registration

Systems
Components

Services



Solutions

Technical Information

Deltapilot S DB50/50L/51/52/53

Hydrostatic Level Measurement

Pressure sensor with CONTITE™ measuring cell;

waterproof, climatic-proofed, long-term stability; for food, fresh water and wastewater, chemical and pharmaceutical products



Application

The devices in the Deltapilot S product family are used for continuous level measurement in all liquid and paste-like media. They are used in both the chemical, pharmaceutical and food industry as well as in the water and wastewater sector.

Switching units perfectly in line with the application:

- Determine the level, volume, differential pressure, density and product weight
- Control limit contacts
- Integrate the measuring point in various automation systems.

Your benefits

- Hermetically sealed CONTITE™ measuring cell:
 - Climatic-proofed and with high long-term stability
 - Maximum linearity (better than 0.1 % of the set measuring range)
 - Minimum temperature effects (better than 0.1%/10 K).
- Compact, rod or cable versions available
- Separate mounting of housing and electronic insert (IP 68 protection at the measuring point)
- Easy and comfortable operation:
 - Onsite with display and operating module
 - Operation via communication
- Replaceable electronic inserts:
 - 4 to 20 mA HART
 - PROFIBUS PA
 - FOUNDATION Fieldbus
 - Analog output
 - PFM



DB53 – cable version with suspension clamp

10	Approval:		
	A	Version for non-hazardous area	
	G	ATEX II 1/2 G EEx ia IIC T6	
	H	ATEX II 2 G EEx ia IIC T6	
	N	ATEX II 3 G EEx nA II T6	
	S	CSA IS, Class I, Division 1, Groups A – D	
T	CSA IS, Class I, Division 2, Groups A – D		
20	Probe:		
	K	... mm FEP extension cable (probe length: 0.5 to 200 m)	
	M	... mm PE extension cable (probe length: 0.5 to 200 m)	
	L	... mm FEP extension cable for EEx ia, CSA IS (probe length: 0.5 to 100 m)	
N	... mm PE extension cable for EEx ia, CSA IS (probe length: 0.5 to 100 m)		
30	Process connection:		
	70	Cable probe without suspension clamp	
71	Suspension clamp AISI 316L		
40	Measuring range:		
	BA	0 to 100 mbar/1 mH ₂ O/40 inH ₂ O	
	BB	0 to 400 mbar/4 mH ₂ O/160 inH ₂ O	
	BC	0 to 1200 mbar/12 mH ₂ O/480 inH ₂ O	
	BD	0 to 4000 mbar/40 mH ₂ O/1600 inH ₂ O	
BE	0 to 10 bar/100 mH ₂ O/4000 inH ₂ O		
50	Linearity; Fill fluid:		
	1	< 0.2 % of measuring range; FDA compliant	
	2	< 0.2 % of measuring range; inert oil	
	3	< 0.1 % of measuring range; FDA compliant	
	4	< 0.1 % of measuring range; inert oil	
Z	Additional specification		
60	Measuring sensor seal:		
	1	Viton	
	2	EPDM	
	5	Kalrez	
3	Sensor welded		
70	Electronics; Output:		
	Electronic inserts without integrated overvoltage protection		
	A	Without integrated electronic insert (e.g. for ordering spare parts)	
	B	FEB11, 3-wire analog signal	
	C	FEB17, 2-wire PFM signal	
	E	FEB22, 4 to 20 mA, HART	
	G	FEB22, 4 to 20 mA, HART, with FHB20 onsite display	
	H	FEB24, PROFIBUS PA	
	K	FEB24, PROFIBUS PA, with FHB20 onsite display	
	1	FEB26, FOUNDATION Fieldbus	
	2	FEB26, FOUNDATION Fieldbus, with FHB20 onsite display	
	Electronic inserts with integrated overvoltage protection		
	M	FEB11P, 3-wire analog signal	
	N	FEB17P, 2-wire PFM signal	
	R	FEB22P, 4 to 20 mA, HART	
T	FEB22P, 4 to 20 mA, HART, with FHB20 onsite display		
U	FEB24P, PROFIBUS PA		
W	FEB24P, PROFIBUS PA, with FHB20 onsite display		
DB53			Order code

→For continuation of ordering information for DB53, see the following page.

DB53 – cable version with suspension clamp (continued)

80										Housing; Cable entry:	
										A0	Without housing (e.g. for ordering spare parts)
										G1	Polyester housing IP 66, gland M 20x1.5
										G2	Aluminum housing IP 66, gland M 20x1.5
										G3	Stainless steel housing AISI 316L IP 66, gland M 20x1.5
										P2	Aluminum housing IP 66, plug M 12x1
										P3	Stainless steel housing AISI 316L IP 66, plug M 12x1
										T2	Aluminum housing IP 66, plug 7/8"
										T3	Stainless steel housing AISI 316L IP 66, plug 7/8"
										E1	Polyester housing NEMA 4X, thread 1/2 NPT
										E2	Aluminum housing NEMA 4X, thread 1/2 NPT
										E3	Stainless steel housing AISI 316L NEMA 4X, thread 1/2 NPT
										F1	Polyester housing IP 66, thread G 1/2 A
										F2	Aluminum housing IP 66, thread G 1/2 A
										F3	Stainless steel housing IP 66, thread G 1/2 A
90										Additional option:	
										0	Basic version
										A	Basic version, adjusted measuring range
DB53											Complete order code