

The perfect flow measurement in full pipelines – contactless!



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Specifications subject to change. H:\NivuSonic-CO\nim-co-db-01-en.cdr / Rev. 04 - 16.12.2013

Power Supply	100 to 240 V AC, +10 % / -15 %, 47 to 63 Hz	
	or 9 - 36 V DC ±15 %, 5 % residual ripple	
Power consumption	max. 48 VA	
Vall mount enclosure	material: Polycarbonate	
	protection: IP65	
	weight: approx. 3700 g	
Operating temperature	-20 °C to +50 °C	
Aax. humidity	80 %, non-condensing	
Display	back-lit graphic display, 128 x 128 pixel	
Operation	18 keys, multilingual dialog mode	
	(German, English, French,)	
nputs	2 sensor pairs directly connectable	
Dutputs	4 x 0/4 - 20 mA, 5 relays (SPDT)	
Data memory	compact flash card up to 128 MB	
Data transmission	via compact flash card, Modbus TCP, inte-	
	grated web server; Ethernet, Internet via	
	Ethernet or optional via internal ISDN or	
	GPRS modem	

Measurement principle	Ultrasonic transit time	
Flow velocity measurement		
Measurement range	±20 m/s	
Inner pipe diameter	0.08 m to 6.0 m (DN80 to DN6000)	
Measurement uncertainty	 flow velocity (v_{average}) ± 0.1 % of 	
depending on hydraulic	measurement value within the path	
ambient conditions	 flow (Q): ±1-5 % of measurement 	
	value	
	 offset velocity < ±5 mm/s 	
Number of paths	1 or 2 measurement paths	
Measurement frequency	1 MHz	
Protection	IP68	
Operating temperature	-30 °C to +80 °C	
Cable length	10 m, other cable lengths on request	
Temperature measurement via sound velocity		
Measurement range	0 °C to +80 °C	
Measurement uncertainty	±1 K	

Instrumentation For Water Industry

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