

Air flow sensor • with IO-Link

Series LDV 1000 GAPL

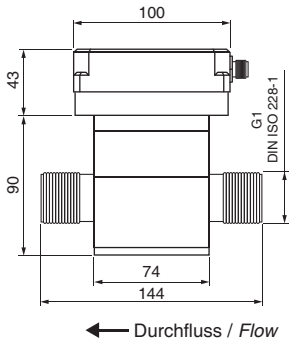
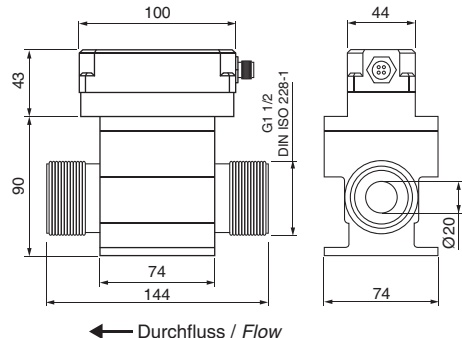

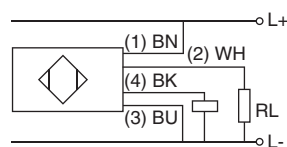
Venturi principle

Monitoring of pressure and temperature

Consumption measurement

Configurable via IO-Link



Design	G1	G1 1/2
Dimensions		
Detection ranges air		
Flow ¹ [Nm ³ /h] [NI/min]	3...420 / 50...7000 (at 7 bar abs)	5...750 / 80...12500 (at 6 bar abs)
Temp. / Pressure [°C] / [bar abs]	0.0...60.0 / 0.00...14.00	0.0...60.0 / 0.00...14.00
Output		
	PNP/NPN-NO/NC 200 mA (20 °C) / 4...20 mA / pulse output PNP/NPN-NO / IO-Link	
ID-No.	P11382	P11383
Type	LDV 1025 GAPL	LDV 1040 GAPL
Process data		
Consumption [Nm ³ x 0.001]	0...999999 x 10 ⁶	0...999999 x 10 ⁶
Flow [Nm ³ /h x 0.1]	0...4200	0...7500
Pressure [bar x 0.1]	0...140	0...140
Temperature [°C x 0.1]	0...600	0...600
Measurement error	flow: ± (5 % of measurement value + 0,5 % of end value) / temperature: ± 2 °C	
Supply voltage [V]	18...30 DC	
Current consumption [mA]	≤ 105	
Ambient temperature [°C]	0...+60	
Medium temperature [°C]	0...+60	
Start-up time / Reaction time [s]	4...12 / < 0.3	
Adjustable parameters	output functions, switching points, units, range, average value, MIN/MAX value	
IO-Link-Specifications	revision 1.1, baud rate COM 2, min. cycle time 6 ms, process data 10 Byte	
Compressive strength [bar]	11 (burst pressure 16)	
Material	housing: aluminium, PBT-GF30 sensor: aluminium, stainless steel, ceramic, epoxy	
Protection [EN 60529]	IP 54	
Connection	M12 connector	
¹ Reference 1013 mbar / 20 °C		
	2 (WH): 4...20 mA / PNP/NPN output / Input 4 (BK): PNP/NPN output / pulse output / IO-Link RL: 200...500 Ohm	
figure: PNP output		
Accessories	IO-Link/USB master set (Z01216)	