

AT-101-668B AT-102S-668B

Explosion-proof ATEX/IECEx Exd differential pressure transmitter



SPECIFICATIONS

Service:	air and non-conductive gases. Not suitable for combustible gases.						
Accuracy:	\pm 0,8% of full scale						
Temperature limits:	transmitter: 0 to 170°F (-18 to 77°C)						
	case: -76 to 140°F (-60 to 60°C)* T5						
	(-60 to 50°C) T6						
Pressure limits:	see table 2						
Compensated temperature rang	e: 40 to 170°F (4,4 to 77°C)						
Thermal effects:	0.033% f.s.°F (± 0.054% f.s./°C)						
Supply voltage:	12-32 VDC						
Output:	4 to 20 mA (2-wire)						
	0-10 VDC / 0-5 VDC (3 wire)						
Zero adjustment:	Accessible opening case only after de-energizing						
Response time:	additional delay in response time due to flame arrestors from 0 to full scale						
	up to 5 sec depending on model range.						
Electrical connection:	terminal strip						
Enclosure rating:	IP66 (IP 65 for versions VS2)						
Housing material:	alluminium (optional stainless steel).						
Finishing:	Blue - texture epoxy coat RAL7015 (aluminum case)						
	Gray - RAL 5015 (top cover)						
Process connections:	1/8" female NPT brass (stainless steel optional)						
Dimensions:	see drawing below						
Weight:	from 4,7 to 15,5 kg						

^{*} Operating ambient temperature is defined also according to the options and pressure instrument choosed.

IMPORTANT NOTES FOR INSTALLATION:

Cables must be fitted through 1/2" NPT cable gland or Atex/IECEx conduit (not supplied with instrument).

Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating (only without venting valve).

Open cover only after de-energizing instrument.

Attention: check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

1. Model configuration

	AT-101			-	668B	-		-		-				
CODE	AT-102 (only for stainless steel material version)					П				Г				
Enclosure extension	Enclosure without extension	N				П								
	Enclosure with extension	n/a				П								
Case material	Aluminum		Α			П								
	Stainless steel (only AT-102 version)		S			П								
Dwyer model					668B									
Ranges	0 - 0.01 in w.c.													
	0 - 0.25 in w.c.													
	0 - 1 in w.c.													
	0 - 2.5 in w.c.						22							
	0 - 5 in w.c.						03							
	0 - 10 in w.c.	0 - 10 in w.c.												
	0 - 25 in w.c.	0 - 25 in w.c.												
	0 - 50 in w.c.	0 - 50 in w.c.												
	0 - 100 in w.c.	0 - 100 in w.c.												
	0.1- 0 - 0.1" in w.c.	0.1- 0 - 0.1" in w.c.												
	0.25- 0 - 0.25" in w.c.						09							
	0.5- 0 - 0.5" in w.c.						12							
	1 - 0 - 1" in w.c.						13							
	2.5 - 0 - 2.5" in w.c.						14							
	5 - 0 - 5" in w.c.													
	10 - 0 - 10" w.c.													
	25 - 0 - 25" w.c.						17							
	50 - 0 - 50" w.c.						18							
	25 - 0 - 25" w.c.						19		1 2 3 B n/a					
Output	4 to 20 mA								1					
	0 to 10 Vdc								2					
	0 to 5 Vdc								2 3 B					
Cover	Blind										В			
	Glass window													
Pressure port /	Brass	Brass										1		
venting valve material	Stainless steel											2		
Pressure port/venting valve	STD pressure port / no venting valve												VS0	
(check table 2 based on max static pressure)	STD pressure port / STD venting valve	STD pressure port / STD venting valve											VS1	
	STD pressure port / LD venting valve							VS2						
Cable entry	1/2" NPT ANSI/ASME B1.20.1													12

n/a: not available

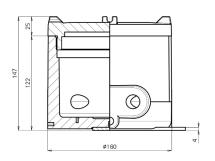
2. Max static pressure admitted - Pressure ports and venting valve configuration

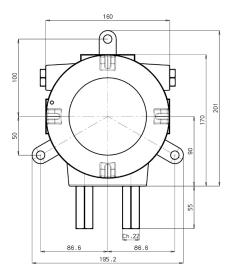
		c: lic l l c		. ,	Maximum pressure value with:				
		Simplified scheme of pressure port /	breatning d	evice (venting v	only one pressure port connected	both pressure ports connected			
Code	VS0	/S1 PRESSURE PORTS	STD	Enclosure	None	10 kPa	10 kPa 15 kPa		
	VS1		STD	breathing device (venting valve)	STD	20 kPa			
	VS2		STD		LD	40 kPa	20 kPa		

Dimension

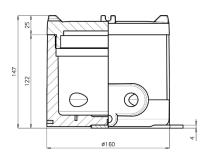
Aluminum case

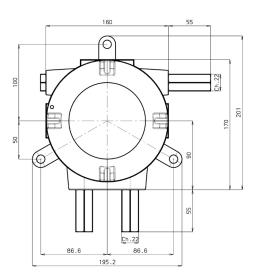
VSO STD pressure port/no venting valve



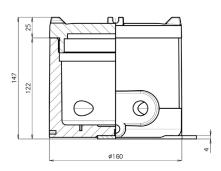


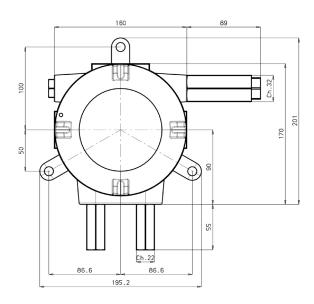
VS 1 STD pressure port/STD venting valve





VS2 STD pressure port/LD venting valve



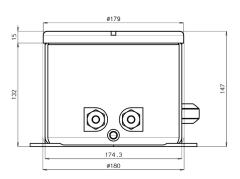


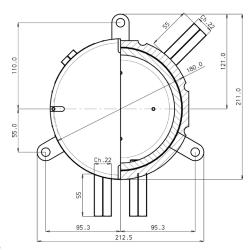
Stainless steel case

VSO STD pressure port/no venting valve

6179 51 174.3 \$\sigma 180

 $\begin{array}{c} VS1 \\ \text{STD pressure port/STD venting valve} \end{array}$





VS2 STD pressure port/LD venting valve

