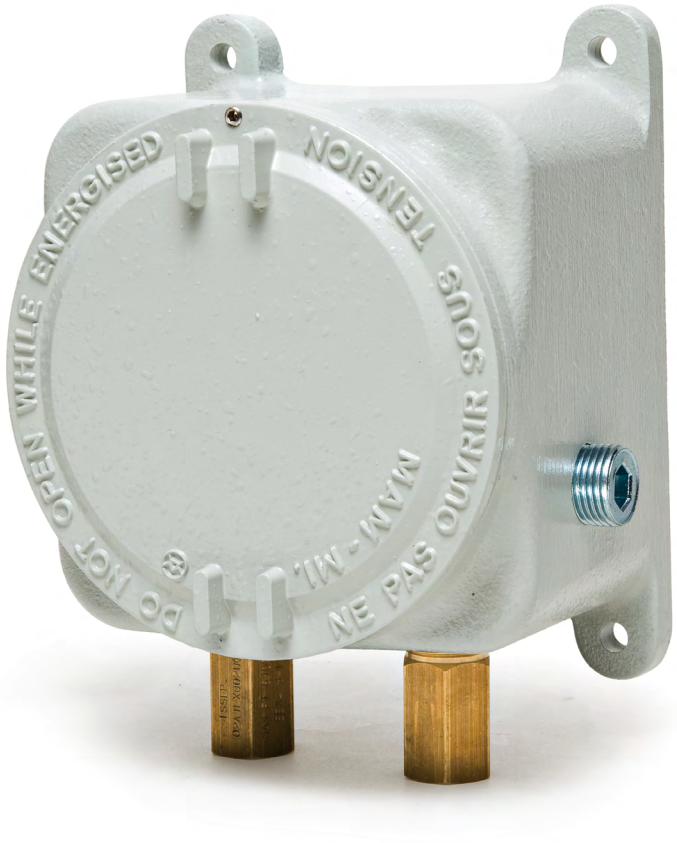
AT2-607

Explosion-Proof ATEX/IECEx Exd low differential pressure transmitter



- Very low range with exceptional stability
- Either ±0.25% or ±0.5% f.s.
- Ultra thin glass clad silicon diaphragm design resists shock and vibration, practically eliminate drift

ATEX	CE 1370 II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T85°C Db, -60°C≤T_{amb}≤+60°C Certificate: BVI 14 ATEX 0072
IECEx	Ex d IIC T6 Gb Ex tb IIIC T85°C Db Certificate: IECEx EPS 14.0082
ENCLOSURE RATING	IP66 (IP65 with option OPV)

AT2-607 SPECIFICATIONS

Service:	air and nonconductive
Wetted materials:	consult factory
Accuracy:	±0.5% or ±0.25% f.s.
Stability:	±0.5% f.s.o. year
Temperature limits:	transmitter: -20 to 160°F (-29 to 71°C), 10 to 95% RH
	case: -76 to 140°F (-60 to 60°C)*
Pressure limits:	10 psig (0.69 bar)
Compensated temperature range:	35 to 135°F (2 to 57°C)
Thermal effects:	±0.015% f.s.°F (zero and span)
Power requirements:	12-36 VDC
Output signal:	4 to 20 mA DC, 2-wire
Zero and span adjustments:	externally accessible potentiometers, non-interactive, ±10% f.s. adjustment (only in safe area)
Response time:	250 msec max (additional delay in response time due to flame arrestors; from full scale to 0 up to 90 sec depending on model range)
Loop resistance:	0 to 1045 ohms Vmin=12V+[(.22A)(RL)]
Current consumption:	3.6 mA (min)
Electrical connections:	screw terminals

HOUSING

Material:	alluminium (stainless steel optional)
Finishing:	texture epoxy coat RAL7038 suitable for installation in harsh environments.
Process connections:	1/8" Female NPT brass (stainless steel optional)
Electrical connection:	1/2" NPT F (cable gland non included)
Dimensions:	see drawing below

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

CAUTION FOR USE ONLY WITH AIR OR COMPATIBLE GASES!
CONTACT FACTORY FOR USE WITH GASES, OTHER THAN AIR AND NITROGEN.

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
(IP65 with option OPV, pressure reliev valve).

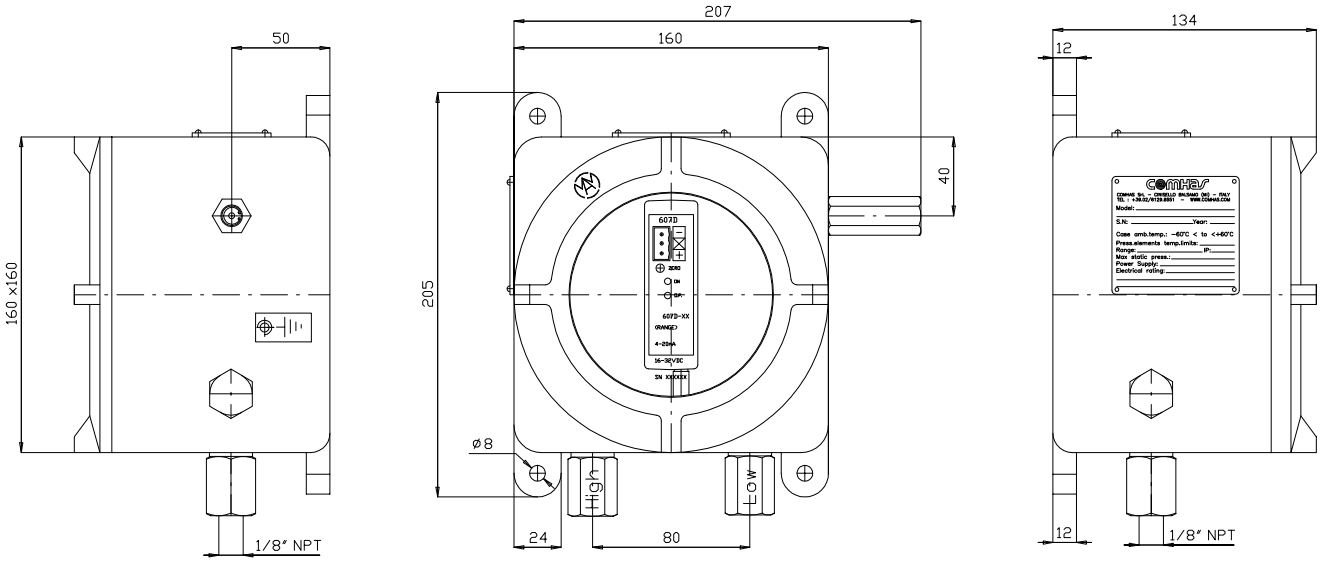
Open cover only after de-energising instrument.

Attention: check local safety rules and warnings on unit and manual for a correct use

STANDARD RANGES (OTHER RANGES AVAILABLE)

MODEL	OPERATING RANGES	ACCURACY
607-0	0 - 0,1 in w.c.	±0,5% f.s.
607-1	0 - 0,25 in w.c.	±0,5% f.s.
607-2	0 - 0,5 in w.c.	±0,5% f.s.
607-3	0 - 1 in w.c.	±0,5% f.s.
607-4	0 - 2 in w.c.	±0,5% f.s.
607-7	0 - 5 in w.c.	±0,5% f.s.
607-8	0 - 10 in w.c.	±0,5% f.s.
607-9	0 - 25 in w.c.	±0,5% f.s.
607-0B	0,1 - 0 - 0,1" in w.c.	±0,5% f.s.
607-1B	0,25- 0 - 0,25" in w.c.	±0,5% f.s.
607-2B	0,5- 0 - 0,5" in w.c.	±0,5% f.s.
607-3B	1 - 0 - 1" in w.c.	±0,5% f.s.
607-4B	2,0 - 0 - 2,0" in w.c.	±0,5% f.s.
607-7B	5 - 0 - 5" in w.c.	±0,5% f.s.
607-01	0 - 0,1 in w.c.	±0,25% f.s.
607-11	0 - 0,25 in w.c.	±0,25% f.s.
607-21	0 - 0,5 in w.c.	±0,25% f.s.
607-71	0 - 5 in w.c.	±0,25% f.s.

DIMENSIONS



Consult factory for different holes layout.

MODEL CONFIGURATION AT2-607

CODE	AT2	-	607	-		-		-					
Housing			607										
Ranges	0 - 0,1 in w.c.				0								
	0 - 0,25 in w.c.				1								
	0 - 0,5 in w.c.				2								
	0 - 1 in w.c.				3								
	0 - 2 in w.c.				4								
	0 - 5 in w.c.				7								
	0 - 10 in w.c.				8								
	0 - 25 in w.c.				9								
	0,1 - 0 - 0,1" in w.c.				0B								
	0,25- 0 - 0,25" in w.c.				1B								
	0,5- 0 - 0,5" in w.c.				2B								
	1- 0 - 1" in w.c.				3B								
	2,0- 0 - 2,0" in w.c.				4B								
	5 - 0 - 5" in w.c.				7B								
	0 - 0,1 in w.c. ± 0,25% accuracy				01								
	0 - 0,25 in w.c. ± 0,25% accuracy				11								
	0 - 0,5 in w.c. ± 0,25% accuracy				21								
	0 - 5 in w.c. ± 0,25% accuracy				71								
Case material	Alluminium						A						
	Stainless steel (s.s. connection included)						S						
Housing options	Blind top cover								B				
	Glass trasparent cover								n.a.				
	1/8" NPT F brass pressure port									1			
	1/8" NPT F stainless steel (only for aluminium housing)									2			
	Standard - without overpressure relief valve										X		
	Overpressure relief valve* (material: same as presure ports)										OPV		
	Stainless steel tag											T2	
Other options	See "other options" - Possible more than one option												...

*IP65 in case of relief valve installation (OPV). Relief valve is used to keep atmospheric pressure inside the case.
Suggested in case of risk of having static pressure ≥19 Bar (static pressure admitted is indicated on tag and it will be anyway always <19 bar).

ACCESSORIES: Atex cable gland.

Dimensions may change without any advice.

info@comhas.com - www.comhas.com - T: +39 02 6129.8551