AT1-616K

Explosion-proof ATEX/IECEx Exd Differential pressure transmitter









- Differential pressure transmitters with one-touch® technology are designed for simplicity making them the ideal choice for installers and maintenance professionals.
- With a single digital push button, both zero and span are calibrated properly, nothing else is required.

ATEX	C€ 1370 ⑤ 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)



AT1-616K SPECIFICATIONS

Service:	air and non-combustible, compatible gases.
Wetted materials:	consult factory
Accuracy:	$\pm 2\%$ f.s.
Stability:	\pm 1% f.s. year
Temperature limits:	transmitter: 32 to 122°F (0 to 50°C)
	case: -76 to 140°F (-60 to 60°C)*
Pressure limits:	2 psi (13.8 kPa)
Thermal effect on span:	$\pm 0.11\%$ f.s.°F ($\pm 0.19\%$ f.s.°C) typ
Thermal effect on zero:	616KD-X0: 0.6% °F (1% °C)
	616KD-X1: 0.3% °F (0.5% °C)
	616KD-X2: 0.2% °F (0.33% °C)
	616KD-X3: 0.12% °F (0.2% °C)
	616KD-X4: 0.06% °F (0.1% °C) f.s. max
Power requirements:	16 to 35 VDC (2 or 3 wire)
	20 to 28 VAC (3 wire)
Output signal:	4 to 20 mA or unit with field selectable
	0 to 10 & 0 to 5 volt
Zero and span adjustments:	push button
Loop resistance:	DC=1000 Ohms max
	AC=1200 Ohms max
Current consumption:	21 mA max
Electrical connections:	screw-type terminal block
Mounting orientation:	position insensitive
Weight:	1.8 oz (51 g)
Housing material:	aluminium (stainless steel optional)
Finishing:	texture epoxy coated RAL 7038 (only aluminium case)
Pressure connections:	1/8" NPT F brass (stainless steel optional),
	in presence of acetylene it is necessary to use stainless steel.
Electrical connections:	2 x 1/2" NPT F standard (cable gland not included).
Dimensions:	see drawing below
Weight:	3.4 Kg ab.

^{*} 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 M25x1.5 cable gland or Atex/IECEx conduit (not supplied withinstrument).

Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating

Open cover only after de-energising instrument.

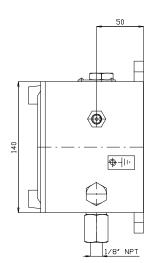
Attention: check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

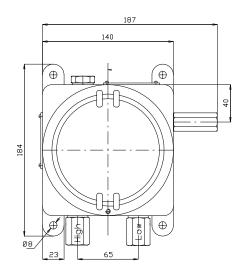


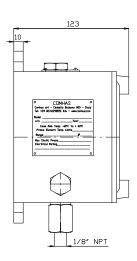
STANDARD RANGES 616K

MODEL	RANGES
616KD-00	0 - 1 in w.c.
616KD-01	0 - 2 in w.c.
616KD-02	0 - 3 in w.c.
616KD-03	0 - 5 in w.c.
616KD-04	0 - 10 in w.c.
616KD-05	0 - 15 in w.c.
616KD-06	0 - 20 in w.c.
616KD-07	0 - 25 in w.c.
616KD-10	0 - 250 Pa
616KD-11	0 - 500 Pa
616KD-12	0 - 750 Pa
616KD-13	0 - 1250 Pa
616KD-14	0 - 2500 Pa
616KD-15	0 - 5000 Pa
616KD-50	1- 0 - 1 in w.c.
616KD-51	2- 0 - 2 in w.c.
616KD-52	5- 0 - 5 in w.c.
616KD-53	10- 0 - 10 in w.c.
616KD-54	250 - 0 - 250 Pa
616KD-55	500 - 0 - 500 Pa
616KD-56	750 - 0 - 750 Pa

DIMENSIONS







Consult factory for different holes layout.



MODEL CONFIGURATION 616K

CODE	AT1 -	616K	-		-		-	В					-	
Housing		616K												
	0 -1 in w.c.			00										
	0 - 2 in w.c. 01													
	0 - 3 in w.c. 02													
	0 - 5 in w.c.			03										
Ranges	0 - 10 in w.c.			04										
	0 - 15 in w.c.			05										
	0 - 20 in w.c. 06													
	0 - 25 in w.c. 0		07											
	0 - 250 Pa		10											
	0 - 500 Pa		11											
	0 - 750 Pa			12										
	0 - 1250 Pa			13										
	0 - 2500 Pa			14										
	0 - 5000 Pa			15										
	1 - 0 - 1 in w.c.			50										
	2 - 0 - 2 in w.c.			51										
	5 - 0 - 5 in w.c.			52										
	10 - 0 - 10 in w.c.			53										
	250 - 0 - 250 Pa 500 - 0 - 500 Pa			54										
				55										
	750 - 0 - 750 Pa			56										
	Standard 4-20 mA					-X								
Output	Field selectable 0-10V/0-5					-V								
Housing	Alluminium							Α						
material	Stainless steel (s.s. connection included)						S							
	Blind						В							
	Glass window n								n/a					
Housing	1/8" NPT F brass pressure port							1						
options	1/8" NPT F stainless steel (only for aluminium housing)						2							
	Standard - without overpressure relief valve													
	Overpressure relief valve* (material: same as pressure ports)										OPV			
	Stainless steel tag											T2		
	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.

