

AT2-2000

Explosion-proof ATEX/IECEX Exd
Magnehelic®
differential pressure gage



- Well known Dwyer® Magnehelic® gage now available from Comhas as single instrument ATEX/IECEX
- Indicate positive, negative or differential pressure
- Zero center ranges

Atex e Exd Magnehelic® gage available in different versions and models.

The Magnehelic® gage is the industry standard to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems and pressures in fluid amplifier or fluidic systems.

ATEX	<p>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</p>
IECEX	<p>Ex d IIC T6 Gb Ex tb IIIC T85°C Db Certificate: IECEX EPS 14.0082</p>
ENCLOSURE RATING	IP66 (IP65 with option OPV)



AT2-2000 SPECIFICATIONS

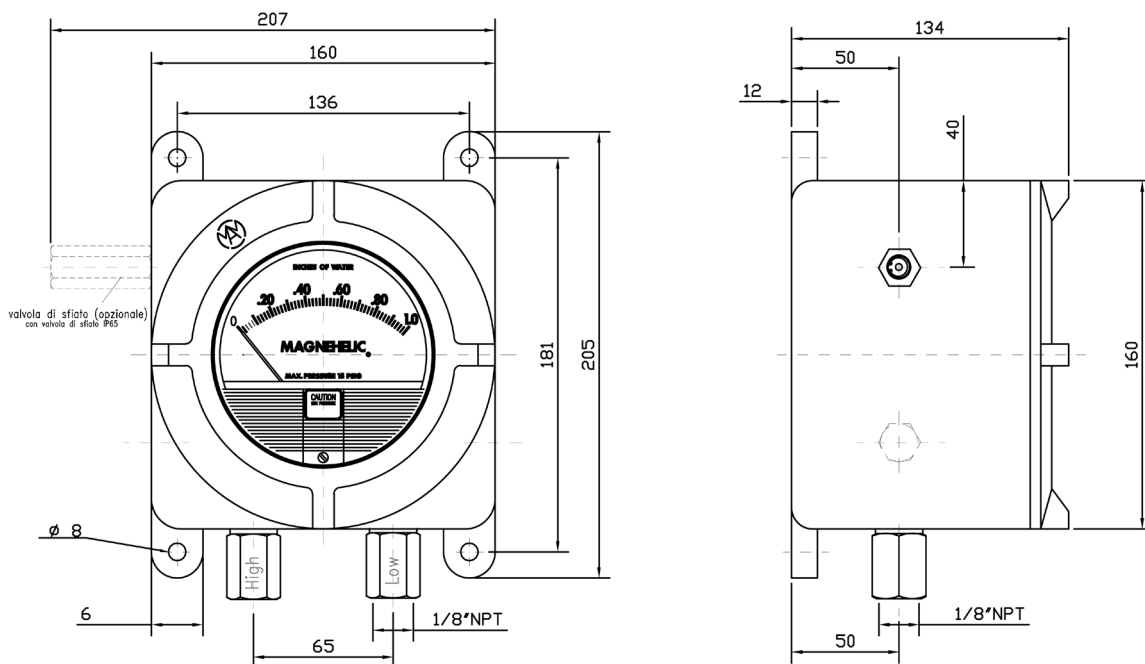
Service:	air and compatible clean and dry gases.
Wetted parts:	consult factory.
Magnehelic® housing:	die cast aluminium case and bezel with acrylic cover.
Temperature limits:	Magnehelic®: -6.67 to 60°C (20 to 140°F). Low temperature option to -28.8°C (-20°F). Case: -60 to 60°C* (-76 to 140°F).
Pressure limits:	-20" Hg to 15 psig** (-0.677 bar to 1.034 bar) MP option: 35 psig (2.41 bar) HP option: 80 psig (5.52 bar).
Overpressure:	relief plug on Magnehelic® opens at approximately 25 psig (1.72 bar), standard gages only.
Accuracy:	±2% of full scale ±3% on -0, -100 Pa, -125 Pa, -10 mm ±4% on -00, -60 Pa, -6 mm ranges, throughout range at 70°F (21.1°C).
Mounting orientation:	diaphragm in vertical position. Consult factory for other position orientations.
Housing material:	aluminium (stainless steel optional).
Finishing:	texture epoxy coat RAL7038 (only aluminium enclosure).
Process connections:	1/8" female NPT brass (stainless steel optional). In case of acetylene presence it is requested to use stainless steel.
Dimensions:	see drawing below.
Weight:	3.9 Kg ab.

* The operating ambient temperature it is always defined by the limits of measuring elements or options selected.

** For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See medium and high options.

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

DIMENSIONS



Consult factory for different holes layout.



STANDARD RANGES (OTHER RANGES AVAILABLE)

MODEL	IN H2O	MODEL	PSI	MODEL	IN H2O	MODEL	KPA	DUAL SCALE AIR VELOCITY UNITS	
								MODEL	RANGE IN W.C. - VELOCITY F.P.M.
2000-00N †••	.05-0-2	2201	0-1	2000-6MM †••	0-6	2000-0.5KPA	0-0.5		
2000-00 †••	0-25	2202	0-2	2000-10MM †•	0-10	2000-1KPA	0-1	2000-00AV †••	0-.25/300-2000
2000-0 †•	0-.50	2203	0-3	2000-15MM	0-15	2000-1.5KPA	0-1.5	2000-0AV †•	0-.50/500-2800
2001	0-1.0	2204	0-4	2000-25MM	0-25	2000-2KPA	0-2	2001AV	0-1.0/500-4000
2002	0-2.0	2205	0-5	2000-30MM	0-30	2000-2.5KPA	0-2.5	2002AV	0-2.0/1000-5600
2003	0-3.0	2210*	0-10	2000-50MM	0-50	2000-3KPA	0-3	2005AV	0-5.0/2000-8800
2004	0-4.0	2215*	0-15	2000-80MM	0-80	2000-4KPA	0-4	2010AV	0-10/2000-12500
2005	0-5.0	2220*	0-20	2000-100MM	0-100	2000-5KPA	0-5		
2006	0-6.0	2230**	0-30	2000-125MM	0-125	2000-8KPA	0-8		
2008	0-8.0	MODEL	CM	2000-150MM	0-150	2000-10KPA	0-10		
2010	0-10	2000-15CM	0-15	2000-200MM	0-200	2000-15KPA	0-15		
2012	0-12	2000-20CM	0-20	2000-250MM	0-250	2000-20KPA	0-20		
2015	0-15	2000-25CM	0-25	2000-300MM	0-300	2000-25KPA	0-25		
2020	0-20	2000-50CM	0-50	2300-6MM †••	3-0-3	2000-30KPA	0-30		
2025	0-25	2000-80CM	0-80	2300-10MM †•	5-0-5	2300-1KPA	.5-0-5		
2030	0-30	2000-100CM	0-100	2300-20MM †•	10-0-10	2300-2KPA	1-0-1		
2040	0-40	2000-150CM	0-150	MODEL	PA	2300-2.5KPA	1.25-0-1.25		
2050	0-50	2000-200CM	0-200	2000-60NPA †••	10-0-50	2300-3KPA	1.5-0-1.5		
2060	0-60	2000-250CM	0-250	2000-60PA †••	0-60	DUAL SCALE ENGLISH METRIC MODELS			
2080	0-80	2000-300CM	0-300	2000-100PA †•	0-100	MODEL	IN H2O	PA O KPA	
2100	0-100	MODEL	IN H2O	2000-125PA †•	0-125	2000-00D †••	0-25	0-62 Pa	
2120	0-120	2300-4CM	2-0-2	2000-250PA	0-250	2000-0D †•	0-0.5	0-125 Pa	
2150	0-150	2300-10CM	5-0-5	2000-300PA	0-300	2001D	0-1.0	0-250 Pa	
2160	0-160	2300-30CM	15-0-15	2000-500PA	0-500	2002D	0-2.0	0-500 Pa	
2180	0-180			2000-750PA	0-750	2003D	0-3.0	0-750 Pa	
2250	0-250			2000-1000PA	0-100 x 10	2004D	0-4.0	0-1.0 kPa	
MODEL	IN H2O			MODEL	PA	2005D	0-5.0	0-1.25 kPa	
2300-00 †••	0.125-0-0.125			2300-60PA †••	30-0-30	2006D	0-6.0	0-1.5 kPa	
2300-0 †•	.25-0-.25			2300-100PA †•	50-0-50	2008D	0-8.0	0-2.0 kPa	
2301	5-0-5			2300-120PA	60-0-60	2010D	0-10	0-2.5 kPa	
2302	1-0-1			2300-200PA	100-0-100	2015D	0-15	0-3.7 kPa	
2304	2-0-2			2300-250PA	125-0-125	2020D	0-20	0-5 kPa	
2310	5-0-5			2300-300PA	150-0-150	2025D	0-25	0-6.2 kPa	
2320	10-0-10			2300-500PA	250-0-250	2050D	0-50	0-12.4 kPa	
2330	15-0-15			2300-1000PA	500-0-500	2060D	0-60	0-15 kPa	

IMPORTANT NOTES FOR INSTALLATION:

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.



MODEL CONFIGURATION AT2-2000

CODE	AT2	-		-		-		-													
Model	See table with standard ranges **		2XXX-XXX																		
	For ranges not included in "standard ranges table"		Special P/N																		
Ranges	Standard from -0,67 Bar to 1,034 Bar static pressure									X											
	Medium pressure - max static pressure 35 Psig (2,41 Bar)									MP											
	Pressure high - max static pressure 80 Psig (5,5 Bar)									HP											
	Standard temp. limits (from -6,67 to 60°C)										X										
	Low temperature to -20°F (-28,8°C)										LT										
Case material	Alluminium																			A	
	Stainless steel (s.s. connection included)																			S	
Housing options	Blind top cover																			n.a.	
	Glass transparent cover																			0	
	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).

**** Standard ranges is intended for all Pa, mmwc and InH2O ranges except 0-180 and 0-250" H2O. For all other ranges and scales price on request.**

OTHER OPTIONS

- ASF: Adjustable signal flag.
- IC: Impregnated case, suggested for use with methane or natural gas.
- B: Buna-N diaphragm, suggested for use with methane or natural gas.
- SF: Silicone free.
- M: Mirror scale overlay.
- SPCL: Special cleaning.
- VIT: Fluoroelastomer.
- G: Green scale overlay.
- R: Red scale overlay.
- Y: Yellow scale overlay.
- XXXXX: Layout code for different holes sizes and layout.

ACCESSORIES: Atex cable gland.

