Barometers/

Measuring transducers for atmospheric pressure, calibratable, with active output



ALD

Calibratable barometer PREM ASGARD ® ALD with active output (U/I switchable) and 4 measuringranges (max. 600...1100 hPa, switchable), in a compact plastic housing with quick-locking screws, optionally with/without display.

The pressure sensor is used for measuring atmospheric air pressure in clean air (non-precipitating) or other non-aggressive, non-combustible gases. It is used in various applications such as ventilation and air conditioning technology, in meteorological measurement stations and air-pressure-dependent control

The piezoresistive measuring element is temperature-compensated and guarantees a high degree of reliability and accuracy. The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible.

TECHNICAL DATA	
Power supply:	24 V AC/DC (± 10%)
Working resistance:	R _a (Ohm) = 25450 Ohm for I-output
Load resistance:	R _L > 25 kOhm for U-output
Power consumption:	< 1 W at 24 V DC; < 2 VA at 24 V AC
Current consumption:	< 45 mA
Measuring ranges:	multi-range switching with 4 switchable measuring ranges (see table)
Output:	switchable 0-10V / 420 mA (via DIP switches)
Connection type:	3-wire connection
Ambient temperature:	storage $-35+85^{\circ}\text{C}$; operation $-30+75^{\circ}\text{C}$, non-precipitating
Type of pressure:	atmospheric air pressure /absolute pressure
Medium:	clean air and non-aggressive, non-combustible gases
Accuracy:	typically ±0.4 kPa compared to calibrated reference device
Zero point offset:	±50 hPa
Positive pressure:	200 kPa
Signal filtering:	switchable 1s/10s (via DIP switches)
Temperature drift:	± 0.1 % of final value per °C
Housing:	plastic, UV-resistant, polyamide material, 30% glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), housing cover for display is transparent!
Housing dimensions:	72x64x37.8mm (Tyr 1 without display) 72x64x43.3mm (Tyr 1 with display)
Cable connection:	cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, inner diameter 10.4 mm) or M12 plug-in connector (flush-type connector, 5-pin, A-coding) according to DIN EN 61076-2-101 (optional, available upon request)
Electrical connection:	0.14 - 1.5 mm², via screw terminals
Air humidity:	<95% RH, non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP65 (according to EN 60529) housing tested, TÜV SÜD, report no. 713139052 (Tyr1)
Standards:	CE conformity according to EMC Directive 2014/30/EU
Equipment:	display, one-line, cutout approx. 36 x15 mm (W x H), for displaying the atmospheric air pressure /absolute pressure
ACCESSOIRES	see chapter Accessories
WS-04	weather and sun protection hood, 130 x 180 x 135 mm, stainless steel V2A (1.4301)



Pressure range (adjustable)	DIP 1	DIP 2
6001100 hPa	OFF	OFF
7001100 hPa	ON	OFF
8001100 hPa	OFF	ON
9001100 hPa (default)	ON	ON

Measurement signal filtering (selectable time interval)	DIP 5
10 s (default)	OFF
1 s	ON

Output (selectable)	DIP 6
Voltage O-10V (default)	OFF
Current 420mA	ON

Conversion table for pressure values:

Unit =	bar	mbar	Pa	kPa	mWS
1 Pa	0,00001 bar	0,01 mbar	1 Pa	0,001 kPa	0,000101971 mWS
1 kPa	0,01 bar	10 mbar	1000 Pa	1 kPa	0,101971 mWS
1 bar	1 bar	1000 mbar	100000 Pa	100 kPa	10,1971 mWS
1 mbar	0,001 bar	1 mbar	100 Pa	0,1 kPa	0,0101971 mWS
1 mWS	0,0980665 bar	98,0665 mbar	9806,65 Pa	9,80665 kPa	1 mWS

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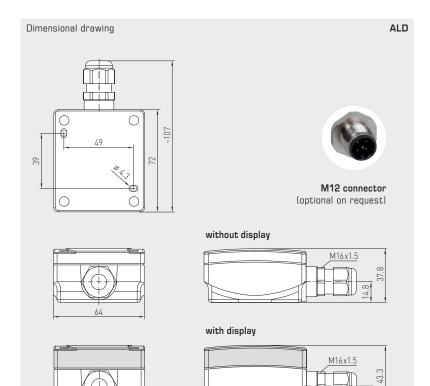
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ALD

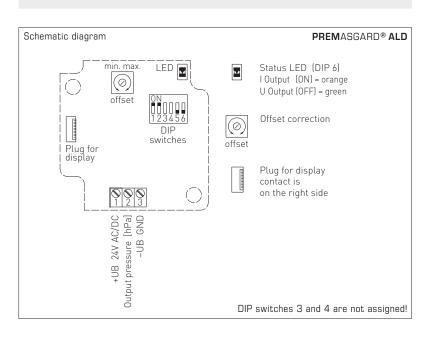


Measuring transducers for atmospheric pressure,









WS-04 Weather and sun protection hood (optional)



PREMASGARD® ALD Measuring transducer for atmospheric pressure						
Pressure range (adjustable)	Type/WG01	Output (switchable)	Display	Item no.	Price	
max. 6001100 hPa	ALD					
6001100 hPa 7001100 hPa	ALD	0-10 V / 420 mA		1301-1157-0130-200	179,66 €	
8001100 hPa 9001100 hPa	ALD LCD	0-10 V / 420 mA		1301-1157-2130-200	211,87 €	
Multi-range switching:	The pressure ranges	The pressure ranges can be set via DIP switches.				
Output:	0-10 V or 420 mA (s	0-10 V or 420 mA (selectable via DIP switches)				
Optional:	Cable connection with	Cable connection with M12 connector according to DIN EN 61076-2-101 (on request)				