

PRESSURE TRANSMITTERS APZ

ELECTRICAL CONNECTION

- DIN 43650A, DIN 43650C
- M12x1
- M16
- Cable gland
- AMP-Superseal 1.5
- Packard Metri-Pack
- Buccaneer
- Custom

MEDIUM TEMPERATURE

-50 °C to +300 °C with radiator



CERTIFIED FOR EXPLOSIVE ATMOSPHERE

0Ex ia IIC T6...T4 Ga X (Intrinsic safety)

1Ex d IIC T6...T4 Gb X (Flameproof Enclosure)

OUTPUT SIGNALS

Analog output: current, voltage

Digital:

- HART®
- CAN bus
- RS-485/Modbus RTU

ACCURACY

Down to 0.1 % (TPM method, incl. linearity, hysteresis and repeatability)

SEALS

FKM, FFKM, EPDM, NBR, VMQ and others

DIAPHRAGM MATERIAL

- Stainless steel (most models)
- Ceramics
- APZ 2410
- APZ 2412
- APZ 3410
- APZ 3240
- APZ 2410 a
- Silicon
- APZ 3230

PRESSURE PORT MATERIALS

- Stainless steel (most models)
- PVC
- APZ 3410
- APZ 3240
- PVDF
- APZ 3410
- APZ 3240

PRESSURE PORT

- DIN 3852, EN 837-1, NPT, UNF
- Open port versions
- Flush diaphragm versions
- With O-ring face seal (ORFS) connection
- Flange connections
- Sanitary connections
- Special rugged options
- Custom versions

PRESSURE RANGES

5 mbar to 1000 bar

MEASUREMENT TYPE

Gauge

Absolute

Vacuum

Differential



APZ 3420-G-1001-8
0...800 kPa
4...20 mA / 2-wire
12...36 V

BASIC SERIES

General industrial

Economy line

SPECIALIZED SERIES

For aggressive, viscous, abrasive media

With Diaphragm Seal (oil filled)

Versions for HVAC and non aggressive gases

High temperature versions



field housing

Options available on selected models

Model	Picture	Accuracy					Pressure ranges	Measurement type			Output signals		Medium temperature		Pressure port											
		%						Gauge	Absolute	Vacuum	Differential	Current	Voltage	Digital	Relay	°C		DIN	EN	NPT	Exposed Diaphragm	Open port	Flush Diaphragm	Food Grade	Flange	Certified for exp. atmosphere
		1.5	1	0.5	0.25	0.1										bar	min									
APZ 3420				•	•		0...0.04 0...600	•	•	•		•	•	•		-40	+125	•	•	•	•	•				0Ex ia 1Ex d
APZ 3421						•	0...0.04 0...600	•	•	•		•	•	•		-40	+105	•	•	•						0Ex ia 1Ex d
APZ 3020					•		0...0.1 0...25					•	•	•	•	-40	+125	•	•	•						0Ex ia 1Ex d
APZ 2410				•			0...1 0...160	•				•				-25	+135	•	•	•						
APZ 2422				•	•		0...2 0...600	•				•	•			-40	+125	•	•	•						
APZ 3240						•	0...0.4 0...10	•	•			•	•			-20	+125	•								0Ex ia 1Ex d
APZ 3410						•	0...0.6 0...600	•	•	•		•	•			-25	+135	•	•	•	•	•		•		0Ex ia 1Ex d
APZ 3420 m						•	0...0.1 0...600	•	•			•	•	•		-40	+125		•				•	•	•	0Ex ia 1Ex d
APZ 3420 s						•	0...0.1 0...40	•	•			•	•	•		-20	+125	•					•	•		0Ex ia 1Ex d
APZ 4420						•	0...5000 psi 0...15000 psi	•				•				-40 -40	+125 +85				WEKO® 2" (1502)					0Ex ia
APZ 2410 a						•	0...1 0...40	•				•				-25	+135	•	•	•						
APZ 2422 a						•	0...6 0...600	•				•				-40	+125	•	•	•						
APZ 3230						•	0...0.006 0...1	•	•			•	•	•		-40	+125	•	•	•						0Ex ia
APZ 2035						•	100...7000 Pa					•	•	•	•	-5	+65		Barbed, for 4 mm ID tube							
APZ 3420 x						•	0...0.4 0...600	•	•	•		•	•	•	•	-40	+125	•	•	•						1Ex d

SUMBERSIBLE LEVEL PROBES ALZ

ACCURACY

up to 0.1 % (TPM method, including linearity, hysteresis and repeatability)

CERTIFIED FOR EXPLOSIVE ATMOSPHERE

0Ex ia IIC T6...T4 Ga X (Intrinsic safety)

CABLE EXTERNAL JACKET

- PVC
- PUR
- FEP

MEDIUM TEMPERATURE

-20 °C to +70 °C

HOUSING MATERIAL

Stainless steel (most models)

- PVC
- ALZ 3822
- ALZ 3824
- ALZ 3742
- ALZ 2712
- ALZ 3710
- PVDF
- ALZ 3742
- PP-HT
- ALZ 3710

DETACHABLE PROBE

ALZ 3820

ALZ 3821

ALZ 3822

ALZ 3824

LEVEL RANGES

0.4 to 250 mH₂O

OUTPUT SIGNALS

Analog: current, voltage

Digital: HART®, RS-485/Modbus RTU

HOUSING DIAMETER

Down to 17 mm

Pt100 temperature sensor

(option)

SEALS

FKM

EPDM

NBR

DIAPHRAGM MATERIAL

- Stainless steel
- Ceramics

PRESSURE PORT

Open port (detached cap)

Different connections (option)

BASIC SERIES

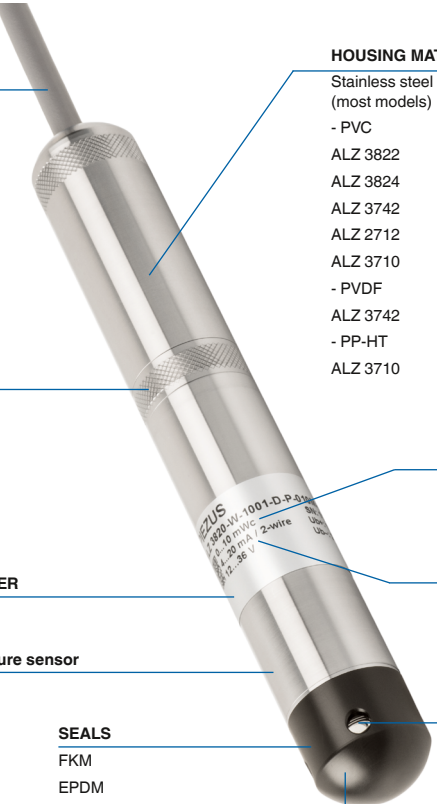
General industrial

Precision versions

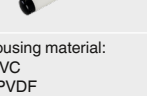
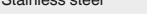
SPECIALIZED SERIES

For aggressive, viscous, abrasive media

Slimline



ALZ 3820-G-1001-D-8-40
0...250 mH₂O
4...20 mA / 2-wire
12...36 V

Model	Picture	Accuracy				Level ranges	Sensor			Housing material	Housing diameter, mm	Output signals			Medium temperature		
		%				mH ₂ O	Silicon piezoresistive	Ceramic piezoresistive	Ceramic capacitive			Current	Voltage	Digital	Pt100 temp. sensor (option)	°C	
		0.5	0.25	0.2	0.1											min	max
ALZ 3720		•	•	•		0...1 0...250	•			Stainless steel 316 L	27	•	•	•	•	-20	+70
ALZ 3820		•	•	•		0...1 0...250	•			Stainless steel 316 L	27	•	•	•	•	-20	+70
ALZ 3822		•	•			0...1 0...100	•			PVC	35	•	•	•		-20	+50
ALZ 3721					•	0...1 0...250	•			Stainless steel 316 L	27	•	•	•	•	-20	+70
ALZ 3821					•	0...1 0...250	•			Stainless steel 316 L	27	•		•	•	-20	+70
ALZ 3824					•	0...1 0...100	•			PVC	35	•	•	•		-20	+50
ALZ 3740		•	•			0...4 0...100		•		Stainless steel 316 L / 904 L	40	•		•	•	-20	+70
ALZ 3742		•	•			0...0.4 0...100		•		PVC PVDF	45	•		•	•	-20 -20	+50* +70**
ALZ 2712		•				0...6 0...100		•		PVC PP-HT	27	•	•			0* -20***	+50* +70***
ALZ 3920		•	•	•		0...1 0...250	•			Stainless steel 316 L	21	•			•	-20	+70
ALZ 3925		•	•	•		0...6 0...250	•			Stainless steel 316 L	17	•			•	-20	+70
ALZ 3710		•				0...6 0...100 0...6 0...200****		•		PVC PP-HT Stainless steel	21 (option: 17****)	•				-20* -25*** -25****	+50* +80*** +80****
Housing material: *PVC **PVDF ***PP-HT ****Stainless steel																	



PIEZUS — is a leading manufacturer of a wide range of electronic pressure transmitters, submersible level probes and flowmeters for a broad range of applications and industries.

With the goal to provide our customers with products of the highest quality we employ the latest technologies and state of the art equipment. Our team is knowledgeable and passionate and includes experts that have decades of combined experience in the electronic pressure, level and flow measurement. In addition to standard product line, we are able to develop and manufacture custom products to meet our customers' requirements. Our manufacturing process and highly trained technicians are a guarantee of high quality products. Our sales partners and customers from around the globe know that we are a trustworthy and responsive partner ready to anticipate their needs and meet and exceed their expectations.

PRESSURE TRANSMITTERS
IN FLAMEPROOF ENCLOSURE

Accuracy
Starting at 0.075* %
(TPM method, including linearity, hysteresis and repeatability)
* ±0.04% / ±0.06% for models AMZ 5055 and AMZ 5455

DIGITAL DISPLAY
LED-backlit LCD, optional

CONFIGURABLE
ZERO and SPAN configurable with buttons

ELECTRICAL CONNECTION
wide range of cable glands choice

OUTPUT SIGNAL
4...20 mA / HART®

TURNDOWN
Up to 100:1 100:1

CERTIFIED FOR EXPLOSIVE ATMOSPHERE
0Ex ia IIC T6...T4 Ga X
(Intrinsic safety)
1Ex d IIC T6...T4 Gb X
(Flameproof enclosure)
1Ex d ia IIC T6...T4 Gb X
(Flame- intrinsic-safety version)

SEALS
FKM, EPDM, NBR, PTFE

PRESSURE PORT
Optional flange connections
hygienic connections
remote diaphragms

MEDIUM TEMPERATURE
-60 °C to +300 °C
(depends on versions)

Model	Picture	Accuracy					Pressure ranges	Measurement type				Output signals		Medium temperature		Pressure port			
		%						Gauge	Absolute	Differential	Vacuum	Analog	Digital	°C		DIN	EN	NPT	Flush diaphragms
		0.04	0.06	0.075	0.1	0.15								min	max				
AMZ 5055		•	•	•			0...0.015 0...70	•	•	•		•	•	-60*	+105			•	
AMZ 5050				•			0...0.015 0...70	•	•	•		•	•	-40*	+105			•	
AMZ 5455		•	•	•			0...0.015 0...600	•	•		•	•	•	-60* -60* -60*	+105** +100** +125**	•	•	•	
AMZ 5450				•			0...0.015 0...600	•	•		•	•	•	-40* -40* -40*	+105** +100** +125**	•	•	•	
AMZ 5055 with flush diaphragms		•	•	•	•	•	0...0.015 0...70	•	•	•		•	•	-60*	+300*			•	•
AMZ 5050 with flush diaphragms				•	•	•	0...0.015 0...70	•	•	•		•	•	-60*	+300*			•	•
AMZ 5455 with flush diaphragms		•	•	•	•	•	0...0.015 0...600	•	•			•	•	-60*	+300*	•	•	•	•
AMZ 5450 with flush diaphragms				•	•	•	0...0.015 0...600	•	•			•	•	-60*	+300*	•	•	•	•
* depends on seal ** depends on seal and sensor version																			

ELECTRONIC PRESSURE SWITCHES ASZ

OUTPUT SIGNALS
Analog: 4...20 mA; 1...5 V
Relay outputs: SPDT or PNP

ACCURACY
Starting at 0.25 %
(TPM method, including linearity, hysteresis and repeatability)

PRESSURE RANGES
0.04 to 600 bar

MEDIUM TEMPERATURE
-40 °C to +135 °C

DIAPHRAGM MATERIAL
- Stainless steel
ASZ 3420
ASZ 3420 p

- Ceramics
ASZ 3410 r
ASZ 3410 p

SEALS
FKM, NBR, EPDM, VMQ

Pressure port
- Stainless steel
ASZ 3420 r
ASZ 3410 r
ASZ 3420 p
ASZ 3410 p

- PVDF
ASZ 3410 r
ASZ 3410 p

PRESSURE PORT
- DIN 3852, EN 837-1. NPT
- Open ports
- Flush diaphragm
- Hygienic connection

Model	Picture	Accuracy			Pressure ranges	Measurement type			Output signals				Medium temperature		Pressure port						
		%				Gauge	Absolute	Vacuum	Analog		Relay		°C		DIN	EN	NPT	Exposed Diaphragm	Open port	Flush Diaphragm	Food Grade
		0.5	0.25	0.2					bar	Current	Voltage	SPDT	PNP	мин							
ASZ 3420 r		•			0...0.04 0...600	•	•	•	•				-40	+125	•	•	•				
ASZ 3410 r		•			0...0.6 0...600	•	•	•	•				-20	+135	•	•	•				
ASZ 3420 p		•			0... 0.4 0...600	•	•	•					-40	+125	•	•	•				
ASZ 3410 p		•			0... 0.06 0...600	•	•	•					-20	+135	•	•	•				
* consult materials pressure port and seals																					

DIGITAL GAUGES AND INDICATORS

STAND-ALONE OPERATION
- Up to 1 year of reliable pressure readings with twice a second update rate in active mode
- Up to 5 year sin on-demand mode

MEDIUM TEMPERATURE
-40 °C to +135 °C

HOUSING
330° rotatable

PRESSURE RANGES
0.04 to 600 bar

PRESSURE PORT
- DIN 3852, EN 837-1. NPT
- Open ports
- Flush diaphragm

SEALS
FKM, NBR, EPDM, VMQ

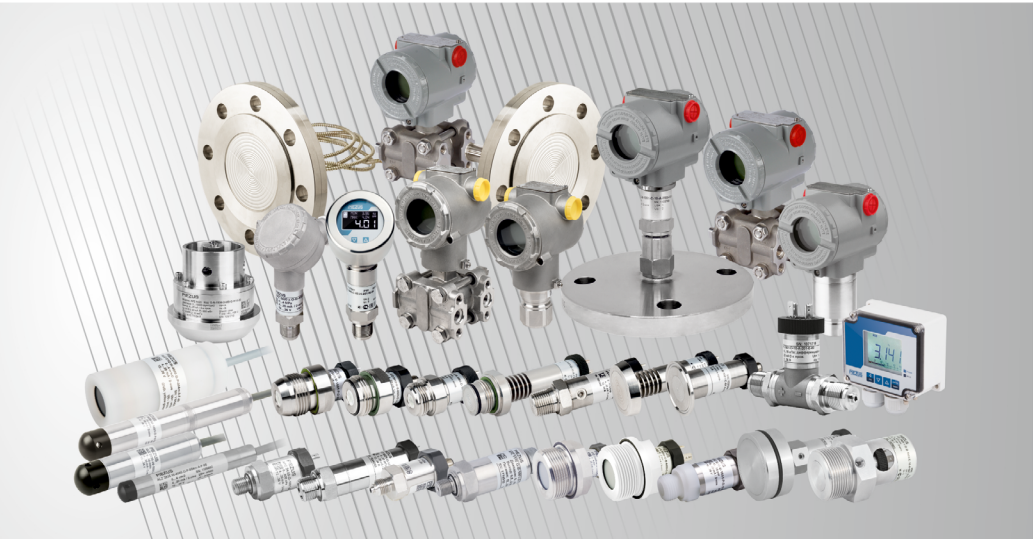
DIAPHRAGM MATERIAL
- Stainless steel
- Ceramics

DISPLAY
Backlight with auto off feature
Minimum and maximum values since the last reset
Select measurement units
Decimal point position selectable
Bargraph
Zero trim and Full scale trim

3-IN-1 SOLUTION
- Pressure transmitter
- Digital gauge
- PNP switch

Pressure Transmitter
with output signal
4...20 mA
and electrical connection
DIN 43650A

PIEZUS
DESIGN
& MANUFACTURING
AT A HIGHEST LEVEL



PRODUCT | pressure
AT A GLANCE | level

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pressure transmitters

pressure switches

submersible level probes

digital gauges