

#### Version with cable connection



Version with plug connection

# P<sub>6</sub>A

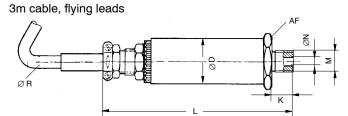
# Absolute Pressure Transducers

## **Special features**

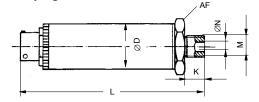
- For static and dynamic pressure measurements in gases and fluids
- Measuring ranges from 0...10 bar to 0...500 bar
- Ideal for test-rig applications
- Specially resistant for operation on alternating loads
- Protection class IP67 according to EN 60 529
- Conforms to EG EMC guidelines

## Dimensions (in mm; 1 mm= 0.03937 inches)

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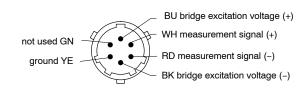
## Version with plug connection



#### Cable connection coding

2 – BK (black)	}	bridge excitation voltage U <sub>E</sub>
3 + BU (blue)	Υ,	
2' – GY (grey) 3' – GN (green)	}	sense lines
1 + WH (white)	٠ ٦	
4 – RD (red)	ł	measurement signal U <sub>A</sub>
5 YE (yellow)	,	cable screen (ground)
		,

#### Plug connection coding (optional)



P6A		ØD	K	L	M	ØN	ØR	AF
with cable connection	10 bar 50 bar	25	12	approx. 112	M12x1.5	5	6.5	27
with plug connection	10 bar 500 bar	25	12	approx. 97	M12x1.5	5	-	27

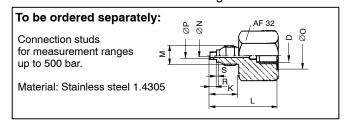


## Specifications (to DIN 16 086)

Type Accuracy class		P6A 0.2					
Measuring range, Obar	bar	10	20	50	100	200	500
Natural frequency of measuring element	kHz	13	15	26	38	65	> 100
<b>Mechanical values</b> to VDI/VDE 2600, related to full scale value						1	1
Operating range at +23 °C [+73.4 °F]	%			0200			0150
Overload limit at +23 °C[+73.4 °F]	%	250 200					
Test pressure	%			250			200
Destruction range	%			> 250			> 200
Materials of of the parts in contact of the mesurement medium				1.4301/1.45	42		1.4542
of the parts in contact with environment		1.4		l, nickel-plate silicone rubb	ed brass, rub er	ber,	1.4542/ 1.4541
Nominal range of excitation voltage		0,512					
Input resistance at +23 °C [+73.4 °F]		350±5					
Output resistance at +23 °C [+73.4 °F]	Ω	350±5					
Nominal sensitivity	mV/V	2					
Sensitivity tolerance (deviation of the sensitivity from nominal sensitivity)	%	≤ ± 0.2					
Temperature coefficient of sensitivity in nominal range of excitation voltage per 10 K, related to the actual value in the nominal temperature range in the operating temperature range	% %	≤ ± 0.1 ≤ ± 0.2					
Temperature coefficient of the zero signal in the nominal range of excitation voltage per 10 K, related to the nominal sensitivity in the nominal temperature range in the operating temperature range	% %	≤ ± 0.15 ≤ ± 0.2					
Deviation from characteristic (origin setting)		≤ ± 0.2					
Repeatability to DIN 1319	%			≤ =	± 0.05		
Nominal temperature range	°C[°F]			-10+80	[+14+176]		
Service temperature range	°C[°F]	-40+	100 [-40	+212] (+12	20 °C [+248 °	F]up to 24	l hours)
Storage temperature range	°C[°F]	-50+100[-58+212] (+120 °C [+248 °F]up to 24 hours)					
Weight without cable, approx.	g			2	200		

#### **Accessories**

Included with device: 1 USIT Ring U12.7x20x1.5



Type	D	K	L	М	N	0	Р	R	s
P3 M/500/M14	M12x1,5	19	50	M14x1,5	3	20,2	5	5	2
P3 M/500/M20	M12x1,5	25	50	M20x1,5	4	20,2	5	5	3
P3 M/500/R1/2	M12x1,5	20	50	G1/2	4	20,2	5	5	3

Connection cable Kab 405.30-3 (for versions with HS6P plug)

Cable socket HK6S, Order No. 3-3312.0095

Cable plug MS3106A16S-1P, Order No. 3-3312.0027

**15 pole D plug,** Order No. 2-9278.0321

## Ordering details

Code	Option 1: Measurement range
010B	10 bar
020B	20 bar
050B	50 bar
100B	100 bar
200B	200 bar
500B	500 bar

Code	Option 2: Electrical connection
K	with cable, 3 m, flying leads
Υ	with cable, ≤ 20 m, flying leads*)
М	with cable, 3 m, MS plug
D	with cable, 3 m, D15 plug
N	with cable, ≤ 20 m, MS plug*)
F	with cable, ≤ 20 m, D15 plug*)
Р	with H86P plug
	*) Please state required cable length

Order code P6A -

Ordering example P6A - 010B - D

Modifications reserved.

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