

# TPR

- ABSOLUTE, RELATIVE, VACUUM  
PIEZORESISTIVE PRESSURE TRANSMITTERS
- FOR INDUSTRIAL USE



## FEATURES

GENERAL	TPRC (21Y SERIES)	TPR- (23SY SERIES)
Range	From 0... 2.5 bar to 1000 bar (and intermediate ranges)	From 0.1 to 1000 bar (and intermediate ranges)
Output	4...20 mA 2 wires or 0...10V 3 wires	4...20 mA 2 wires or 0...10V, 0... 5V 3 wires
Pressure measurement	Absolute, relative, vacuum	
Power supply	8... 32 VDC or 13... 32 VDC	
Power consumption	< 5 mA	5 mA max
ELECTRICAL		
Accuracy	±0.5% FS	±0.25% FS if range >2...1000 bar and >0.3... 2 bar ±0.5% FS if range 0.1... 0.3 bar
Total error band	1.5% FS @ -10... 80°C	from ±0.4% to ±2.5 mbar according to FS @ -10... 80°C
MECHANICAL		
Process connection thread	7/16" 20 UNF male, 1/4" G male, 1/4" SAE male, 1/4"-18 NPT male, 1/2" G male with optional external adapter	1/4" G male, 1/4"-18 NPT male, 1/2" G male
Electrical connection	Mini DIN MPM, cable Ø 3.3 mm	GSP (DIN 43650)
Material	AlSi16L	
Protection degree	IP65	IP65...IP67 (according to the connection and connector)
Operative temperature	-20... 85°C	-40...120°C

## HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

TPR- SERIES	CODE
23SY	--
21Y	C-
<b>RANGE</b>	
0.5... 8 bar	1
0... 30 bar	2
±1 bar (23SY series only)	3
0... 10 bar (Standard)	4
0... 4 bar (Standard)	6
0... 300 bar	7
0... -1 bar (23SY series only)	8
0... 400 bar	11
0... 1 bar (23SY series only) (Standard)	12
0... 2.5 bar (Standard)	22
0... 25 bar (Standard)	25
0... 20 bar	A
0... 6 bar (Standard)	B
0... 16 bar (Standard)	C
0... 200 PSI	E
0... 300 PSI	F
0... 500 PSI	G
0... 750 PSI	H
0... 100 PSI	I
0... 50 mbar	L
<b>PROCESS THREAD</b>	
7/16" 20 UNF male	A
1/4" G male (Standard)	B
1/4" SAE male	D
1/4"-18 NPT male	E
1/2" G male (standard only on 23SY series or with external adapter for 21Y series - See note (*))	F
<b>TERMINALS</b>	
1 m cable	01
2 m cable	02
5 m cable	05
Mini DIN MPM connector + PG07 (21Y series only)	P7
DIN43650 connector + PG09 (23SY series only)	P9
<b>OUTPUT</b>	
4... 20 mA	C

Note :

For pressure ranges or features not shown in the table, please contact our sales office.

(\*) Part no. for external adapter from 1/4" to 1/2": ATPRC-001

## DIMENSIONS

TPR-

### Serie 21 Y

Connettore GSP  
EN 17 5301-803-A  
(DIN 43550)

Cavo

### Serie 23 SY


Connettore GSP  
EN 17 5301-803-A  
(DIN 43550)

Cavo

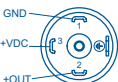
Le dimensioni sono espresse in mm

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## CONNECTIONS

CABLE	2 WIRES		3 WIRES	
Ø3.3 mm	4... 20 mA		0... 10 V	
	White	OUT/GND	White	+Out
	Green	n.c.	Green	GND
	Brown	+Vs	Brown	+Vs

GPS EN 175301-803-A	2 WIRES		3 WIRES	
□18	4... 20 mA		0... 10 V	
	1	OUT/GND	1	GND
	2	n.c.	2	+OUT
	3	+Vs	3	+Vs
	⊕	n.c.	⊕	n.c.