

# Mini-size Pressure Transmitter

## Specifications

Range	-100kPa...0kPa - 10kPa...100MPa
Overpressure	≤ 2 times FS or 110MPa (min. Value is valid)
Pressure type	Gauge G, Absolute A, Sealed Gauge S, Positive/ Negative N
Accuracy	Refer to “Measuring Range & Accuracy Table”
Long-term stability	±0.3%FS/year
Operating temperature	-30°C~ 80°C (B1, B4)
	-20°C~ 70°C (B2, cable material: PE)
	-20°C~ 80°C (B2, cable material: PUR)
	-30°C~ 60°C (Intrinsically safe explosion-proof, B1)
	-20°C~ 60°C (Intrinsically safe explosion-proof, B2)
	-20°C~ 60°C (Flameproof)
Storage temperature	-40°C~ 120°C (B1)
	-20°C~ 85°C (B2, B4)
Vibration	10g , 55Hz ~ 2000Hz
Shock	100g , 11ms
Protection class	IP65
Weight	≤270g

## Measuring Range & Accuracy Table

Gauge Pressure				
Unit	Measuring Range	Accuracy	Overpressure	
kPa	0-7	±1%FS	15	
	0-10		20	
	0-20		40	
	0-25	±0.5%FS	50	
	0-40		100	
	0-50		100	
	0-60		100	
	0-70		100	
	0-80		200	
	0-90		200	
	0-100		200	
	0-160		±0.25%FS	300
	0-200			400
	0-250	500		
	0-300	600		
	0-400	1000		
	0-500	1000		
	0-600	1000		
	0-700	1400		
	0-800	1600		
0-900	1800			

Unit	Measuring Range	Accuracy	Overpressure
MPa	0-1	±0.25%FS	2
	0-1.6		3
	0-2		4
	0-2.5		5
	0-3		6
	0-3.5		6

Unit	Measuring Range	Accuracy	Overpressure
psi	0-1.5	±0.1%FS	3
	0-3		6
	0-5	±0.5%FS	10
	0-10		15
	0-15		20
	0-30	±0.25%FS	45
	0-60		150
	0-100		150
	0-160		300
	0-200		300
	0-300		450
	0-500		750

Unit	Measuring Range	Accuracy	Overpressure
mbar	0-70	±1%FS	150
	0-100		200
	0-200		500
	0-250	±0.5%FS	500
	0-400		1000
	0-500		1000
	0-600		1200
	0-700		1400
	0-800		1600
	0-900		1800

Unit	Measuring Range	Accuracy	Overpressure
bar	0-1	±0.5%FS	2
	0-1.6	±0.25%FS	3
	0-2		4
	0-2.5		5
	0-3		6
	0-4		10
	0-5		10
	0-6		10
	0-7		14
	0-8		16
	0-9		18
	0-10		20
	0-16		30
	0-20		40
	0-25		50
	0-30		60
0-35	60		

Sealed Gauge Pressure			
Unit	Measuring Range	Accuracy	Overpressure
MPa	0-3.5	±0.25%FS	7
	0-4		10
	0-5		10
	0-6		10
	0-7		10
	0-8		15
	0-9		15
	0-10		15
	0-16		30
	0-20		30
	0-25		37.5
	0-30		45
	0-35		52.5
	0-40		60
	0-50		75
	0-60		90
	0-70		100
	0-80		100
0-90	100		
0-100	110		

Unit	Measuring Range	Accuracy	Overpressure
psi	0-500	±0.25%FS	750
	0-600		1500
	0-700		1500
	0-800		1500
	0-900		1500
	0-1000		1500
	0-2000		3000
	0-3000		4500
	0-4000		6000
	0-5000		7500
	0-6000		9000
	0-7000		10500
	0-8000		12000
	0-9000		13500
	0-10000		15000

Unit	Measuring Range	Accuracy	Overpressure
bar	0-35	±0.25%FS	70
	0-40		100
	0-50		100
	0-60		100
	0-70		100
	0-80		150
	0-90		150
	0-100		150
	0-160		300
	0-200		300

	0-250		450
	0-300		525
	0-350		375
	0-400		600
	0-500		750
	0-600		900
	0-700		1000
	0-800		1000
	0-900		1000
	0-1000		1100

<b>Absolute Pressure</b>			
<b>Unit</b>	<b>Measuring Range</b>	<b>Accuracy</b>	<b>Overpressure</b>
kPa	0-40	±1%FS	100
	0-50		100
	0-60		100
	0-70		100
	0-80		200
	0-90		200
	0-100		200
	0-160	±0.5%FS	300
	0-200		400
	0-250		500
	0-300		600
	0-400		1000
	0-500		1000
	0-600		1000
	0-700		1400
	0-800		1600
	0-900		1800

<b>Unit</b>	<b>Measuring Range</b>	<b>Accuracy</b>	<b>Overpressure</b>
mbar	0-400	±1%FS	1000
	0-500		1000
	0-600		1200
	0-700		1400
	0-800		1600
	0-900		1800

Unit	Measuring Range	Accuracy	Overpressure	
bar	0-1	±0.5%FS	2	
	0-1.6		3	
	0-2		4	
	0-2.5		5	
	0-3		6	
	0-4		10	
	0-5		10	
	0-6		10	
	0-7		14	
	0-8		16	
	0-9		18	
	0-10		20	
	0-16		±0.25%FS	30
	0-20			40
	0-25	50		
	0-30	60		
	0-35	60		
	0-40	100		
	0-50	100		
	0-60	100		
	0-70	140		
	0-80	160		
	0-90	180		
	0-100	200		
	0-160	300		
	0-200	300		
	0-250	375		
	0-300	350		
	0-350	525		
	0-400	600		
	0-500	750		
	0-600	900		
	0-700	1000		
	0-800	1000		
	0-900	1000		
0-1000	1100			

Unit	Measuring Range	Accuracy	Overpressure
psi	0-5	±1%FS	10
	0-10		15
	0-15		20
	0-30	±0.5%FS	45
	0-60		150
	0-100		150
	0-160		300
	0-200	±0.25%FS	300
	0-300		450
	0-400		750
	0-500		750
	0-600		1500
	0-700		1500
	0-800		1500
	0-900		1500
	0-1000		1500
	0-2000		3000
	0-3000		4500
	0-4000		6000
	0-5000		7500
	0-6000		9000
	0-7000		10500
	0-8000		12000
	0-9000	13500	
	0-10000	15000	

Positive/Negative pressure			
Unit	Measuring Range	Accuracy	Overpressure
kPa	-25-0	±1%FS	50
	-40-0		100
	-60-0		100
	-100-0		150
	-3-+3		10
	-5-+20		30
	-5-+25		30
	-15-+15		30
	-20-+20		30
	-25-+25		50
	-30-+30		50
	-50-+50		100
	-100-+60		150
	-100-+100		300
	-100-+150	300	
	-100-+300	±0.5%FS	500
	-100-+500		1000
	-100-+900		2000
	-100-+1000		2500
	-100-+1500		3000
	-100-+1600		3000
	-100-+2000		3000
	-100-+2500		5000
	-100-+3000		6000
-100-+3500	7000		

Unit	Measuring Range	Accuracy	Overpressure
psi	-15-0	±1%FS	20
	-15-+10		20
	-15-+15		45
	-15-+30	±0.5%FS	150
	-15-+50		150
	-15-+80		300
	-15-+100		300
	-15-+150		450

Unit	Measuring Range	Accuracy	Overpressure	
bar	-0.25-0	±1%FS	0.5	
	-0.4-0		1	
	-0.6-0		1	
	-1-0		1.5	
	-0.03-+0.03		0.1	
	-0.05-+0.2		0.3	
	-0.05-+0.25		0.3	
	-0.15-+0.15		0.3	
	-0.2-+0.2		0.3	
	-0.25-+0.25		0.5	
	-0.3-+0.3		0.5	
	-0.5-+0.5		1	
	-1-+0.6		1.5	
	-1-+1		2	
	-1-+1.5		3	
	-1-+3		±0.5%FS	5
	-1-+5			10
	-1-+9			20
	-1-+10	25		
	-1-+15	30		
	-1-+16	30		
	-1-+20	30		
	-1-+24	50		
	-1-+25	50		
	-1-+30	60		
	-1-+35	70		

## Output Signals

Output Signal	Supply Voltage	Output Type	Load Resistance
4m~20mA DC	11V~28V DC	2-wire	$\leq(U-11)/0.02 (\Omega)$
1V~20mA DC		3-wire	$\geq 10k\Omega$
0V~5V DC			
0.5V~4.5V DC			
0V~10V DC	15V~28V DC		
0.5V~4.5V DC	5V±0.1V DC		
0.5V~2.5V DC	3.3V±0.1V DC		
0.5V~2.5V DC			