# Wireless Differential Pressure Transmitter Canicos



# GPT244

### INTRODUCTION ///

GPT244 differential pressure transmitter adopts the technology of monocrystalline silicon sensor, is suitable to measure flow, level, density and pressure of the measured liquids, gases and steam. It is a kind of differential pressure measurement instruments with the function of radio data transmission and the characteristics of battery-powered. Wireless transmission methods are SWSN (Our own efficient protocol transmission method) and Lora (Spread spectrum wireless transmission method), which has the characteristics of ultra-low power consumption and ultra-strong signal penetration respectively.



#### FEATURES

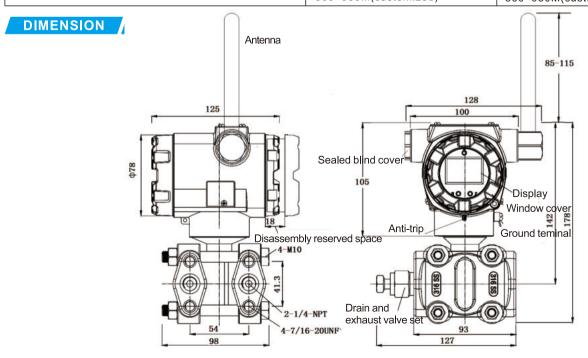
- Built-in high precision monocrystalline silicon pressure sensor, high measurement range
- Ultra-high overvoltage performance
- Local three-button setting
- Standard testing range reference accuracy: : ±0.075%FS
- Ultra-low power consumption, 1s sending interval, 3 years battery life. (SWSN) 5s sending interval, 8 years battery life. (SWSN)
- LORA spread spectrum wireless transmission distance up to 5 kilometers (Sight Distance)
- 5 digits LCD ultra-low power segment code display
- Timing send+Changes send function
- Dual frequency redundant communication function (optional)

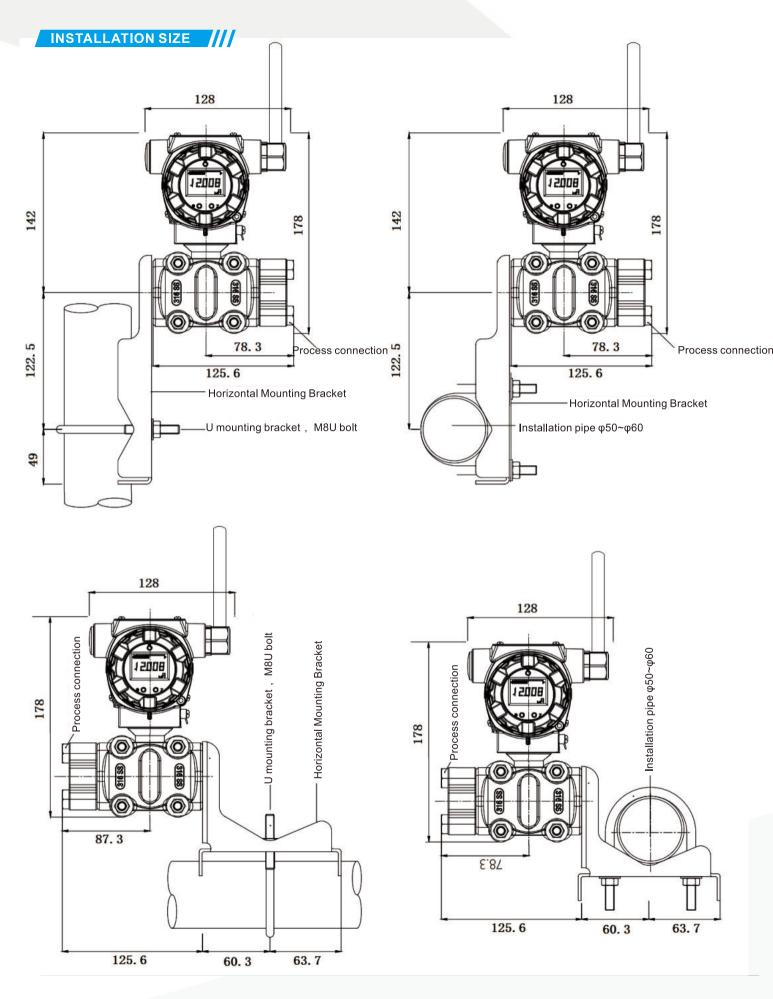
### APPLICATION ///

- Wind pressure and flow velocity measurement in industrial processes
- Measuring systems such as dry gases
- Pipe and furnace pressure measurement
- Petrochemical industry

## TECHNICAL PARAMETERS ///

Pressure range	-500kpa~0	~10Mpa						
Resolution	0.01							
Reference accuracy	±0.075%FS							
Wireless transmission	GFSK SWSN : LORA :							
Data upload interval	1-255s(GFSK): 1-255min(LORA):							
Data upload mode	Timed upload ? Changes upload(Changes limit can be set)							
Equipment working environment	-40~85℃; humidity 0~95%RH, no condensation							
Environment temperature influence	Total impact/28℃(50°F) ± [ 0.08% range +0.015% upper range limits ]							
Static influence	±0.1% range/10MPa							
Stability	±0.1% upper range limits/5 Yrs							
Power effect	±0.005%/1V							
Protection grade	IP66							
Fixed method	Fastening with U-bolts on 50mm (2-inch) pipes							
Weight	3.0~3.2kg							
Battery parameters	Capacity 19000mAh, voltage 3.6V							
Sending interval	0.25s	1s	2s	5s	1min	2min	10min	
Battery life	0.8Yr	3Yrs	5Yrs	10Yrs	1Yr	3Yrs	8Yrs	
Wireless transmission	SWSN	SWSN	SWSN	SWSN	LORA	LORA	LORA	
Testing condition: 20°C 60%RH Lab Bar	ttery Self-Disc	charge Rate :	<1%/Yr					
Radio parameters								
Wirelss mode	SWSN			LORA				
Transmission distance(sight distance)	1000~2000	ım		5000~10000m				
Transmission distance(Obstacles, referen	50-250m			250-1000m				
Carrier Frequency	430~470~5 860~930M(	10M customized)		430~470~510M 860~930M(customized)				





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# ORDER GUIDANCE ////

Code	Outp	ut sign	al									
GF		SN GFSK wireless(Sight distance1000m)										
LR	LORA	LORA wireless(Sight distance 5000m)										
-	Code	Pressure range										
	F	-6~6KPa (Static pressure 16MPa)										
	L	-10~10KPa (Static pressure 16MPa)										
	М	-100~100KPa (Static pressure 16MPa)										
	Н	-500~500KPa (Static pressure 16MPa)										
	VL	0~4MPa (Static pressure 25MPa)customized										
	VM	0~10MPa (Static pressure 25MPa)customized										
		Code	\A/~44~	-l 4i -	Prod	ocess interface		Isolation m	embrane b	ox Isolation gasket	Drain/Gas p	
		S	wette	d material		316		3161	L	PTFE	316	
			Code	Proces	s interf	ace						
			3	Process	Process connector with 1/4NPT F							
			4	Process	Process connector with 1/2NPT F							
				Code	Code Bolts and nuts material							
				J	Carbon steel with plastic sprayed, carbon steel galvanized							
				В	304 st	ainless steel						
				G1	316L stainless steel							
					Code Installation							
					8	Horizontal installation, high pressure at right side						
					9	Horizor	ntal ins	installation, high pressure at left side				
						Code	Amı	olifier Hous	r Housing			
						1	1 Cast aluminum alloy					
							Code Electrical interface					
							7	1/2NPT F Two electrical interfaces with one blind plug (wired to				
							9	M20*1.5 I	M20*1.5 F Two electrical interfaces with one blind plug (wired type)			
							0	M20*1.5 F an electrical interface with plug (No wire pl				
								Code	Built-in display			
								D	Digital di	splay		
								N	None			
									Code	2-inch Pipe Mounting	Brackets	
									Α	Carbon steel with plastic	sprayed, flat brac	
									В	304 stainless steel, fl	at bracket	
									С	Carbon steel with plastic sp	rayed, L type brac	
									D	304 stainless steel, L	type bracket	
									J	316 stainless steel, fl	at bracket	
									K	304 stainless steel, L	type bracket	
4 D	М	S	4	J	8	1	9	D	В			