Heavy Load Pressure Transmitter KP30 2wire 4-20mA Welded Stainless Steel Pressure Sensor

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: KP30-2503-1-5-100-300-N-070-DB037
- Minimum Order Quantity: 5 pieces
- Price: Negotiable
- Packaging Details: Polybag packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 100000 pieces per month

Product Specification

- Gauge Pressure [bar]: 10/16/20/25/40/60/100/160/250/400/600
- Max. Overvoltage(static) [bar]: 20/32/40/50/80/120/200/320/500/800/1200
- Bursting Pressure≥ [bar]: 50/80/100/125/200/300/500/800/1400/2000/3
- Vacuum Resistance: Unlimited
- Standard: 2 Wire: 4 ... 20 MA / VS = 8 ... 32 VDC
- Response Time: 2 Wire: ≤ 10 Ms
- Highlight: **20mA Pressure Transmitter**, **2wire Pressure Transmitter**, **Welded Stainless Steel Pressure Transmitter**

Product Description

Heavy Load Pressure Transmitter KP30 2wire 4-20mA Welded Stainless Steel Pressure Sensor

Product Description

Application:
- Mobile hydraulic station monitoring
- Die casting
- Various machinery manufacturing
- Oxygen environment applications

Technical Data

Rated Range											
Gauge Pressure [bar]	10	16	20	25	40	60	100	160	250	400	600
Max. Overvoltage(static) [bar]	20	32	40	50	80	120	200	320	500	800	1200
Bursting Pressure ≥ [bar]	50	80	100	125	200	300	500	800	1400	2000	3000
Vacuum Resistance	Unlimited										

Heavy Load Pressure Transmitter

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Heavy Load Pressure Transmitter

Application:
- Mobile hydraulic station monitoring
- Die casting
- Various machinery manufacturing
- Oxygen environment applications

Features:
- Welded stainless steel sensor
- Accuracy: 0.25 % FSO BFSL (0.5% FSO IEC 60770)
- Rated range From0 ... 10 bar to 0 ... 600 bar

Technical parameters

CE

Rated range											
Gauge pressure	[bar]	10	16	20	25	40	60	100	160	250	400	600
Max. overvoltage(static)	[bar]	20	32	40	50	80	120	200	320	500	800	1 200
Bursting pressure≥	[bar]	50	80	100	125	200	300	500	800	1400	2000	3000
Vacuum resistance		Unlimited										
Signal / Power												
Standard		2 wire:		4 ... 20 mA		/ V_S = 8 ... 32 V_{DC}						
Optional		3 wire:		0 ... 10 V		/ V_S = 14 ... 30 V_{DC}						
Performance												
Accuracy [1]		BFSL: ≤ ± 0.25 % FSO						IEC 60770 [1]: ≤ ± 0.5 % FSO				
Load characteristics		2 wire: R_{max} = [(V_S – $V_{S\,min}$) / 0.02A] Ω 3 wire: R_{min} ≈ 10 kΩ										
Influence effect		power: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ										
Response time		2 wire: ≤ 10 ms						3 wire: ≤ 3 ms				
Measurement frequency		1 kHz										
[1] *Accuracy according to IEC 60770 – Limit point adjustment (non-linearity, hysteresis, repeatability)*												
Temperature drift characteristics (zero offset and range)/operating temperature												
Temperature drift coefficient		≤ ± 0.3 % FSO / 10 K				Compensated range: 0 ... 70 °C						
Working temperature		Medium: -40 ... 125 °C				Electronic Components/Environment: -40 ... 85 °C				Storage: -40 ... 85 °C		
Electrical protection												
Short circuit protection		Permanent										
Reverse polarity protection		No damage, but no work										
Electromagnetic compatibility		RF protection complies with EN 61326										
Mechanical stability												
Earthquake resistant		20 g, 25 Hz ... 2 kHz				Complies with DIN EN 60068-2-6 standard						
Impact resistant		500 g / 1 ms				Complies with DIN EN 60068-2-27 standard						

Material		
Pressure port	Stainless steel 1.4571 (316Ti)	
Shell	Stainless steel 1.4301 (304)	
Pressure port seals	FKM: G 1/4" DIN 3852	Others, please consult
Sensor seal	None (welded type)	
Diaphragm	Stainless steel 1.4542 (630)	
Wetware	Pressure port, seeling ring (pressure port),diaphragm	
Others		
Weight	around 120 g	
Current limit	2 wire: Max. 25 mA 3 wire voltage: standard 7 mA (short circuit current: Max. 20 mA)	
Service life	100 x 10^6 load cycle	
CE	EMC specification: 2014/30/EU,Specification for pressure meansuring equipment: 2014/68/EU (module A) [2]	

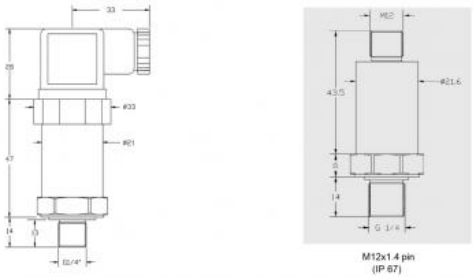
[2] *the specification only applies to models with Max. overpressure* > 200 bar

Wiring diagram

Signal wire definition

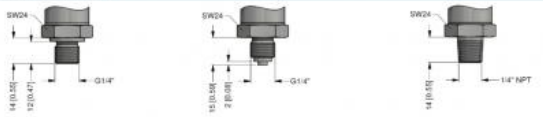
Electrical connection	ISO 4400	M12x1 (4 pin), Metal
		
Power +	1	1
Power –	2	2
Signal + (3-wire)	3	3
Ground wire	Ground ⏚	4

Electrical port (Unit: mm / in)



M12x1.4 pin
(IP 67)

Pressure port (Unit: **mm / in**)



G1/4" DIN 3852
(non-oxygen environment applications)

G1/4" EN 837

1/4" NPT

Heavy Load Pressure Transmitter

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KP30 Selection table

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Measure pressure														
Guage pressure	R													
Rated range	**[bar]**													
6		0	0	0	6									
10		0	0	1	0									
16		0	0	1	6									
25		0	0	2	5									
40		0	0	4	0									
60		0	0	6	0									
100		0	1	0	0									
160		0	1	6	0									
250		0	2	5	0									
400		0	4	0	0									
600		0	6	0	0									
1500		1	5	0	3									
2500		2	5	0	3									
4000		4	0	0	3									
User needs		9	9	9	9									
Output														
4 ... 20 mA / 2wire						1								
0 ... 10 V / 3wire						3								
0.5 ... 4.5 V / 3wire						8								
Accuracy														
0.5 % FSO							5							
Electrical connection														
ISO 4400 plugs and sockets								1	0	0				
M12x1 （4pin）/ Metal(user needs)								M	1	3				
								9	9	9				
Pressure port and process connections/seals														
G1/4" DIN 3852 / pressure port seal: NBR M20x1.5											3	0	0	N
DIN 3852/ pressure port seal: NBR M20x1.5											5	0	0	N
EN837/ no seal											8	0	0	2
1/4" NPT / no seal											N	4	0	2
Special model														
Standard													H	N	G
Damping													0	7	0
User needs													9	9	9

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