## Orsense SPT25 Series Pressure Transmitters



#### **Applications**

- Process control & automation
- Pump & compressor control
- Hydraulic systems
- Pneumatic systems
- Engine monitoring
- Refrigeration equipment
- Presses
- Machine tools

The ProSense SPT25 pressure transmitter series is engineered to meet many industrial, commercial, and OEM pressure measurement applications. The all stainless steel welded thin film sensing element provides very fast response time and is compatible with many different media sensing applications. With a robust design resistant to vibration, shock, and EMI/RFI, the SPT25 series provides high accuracy over a wide compensated temperature range. Pressure sensing ranges from vacuum to 5000 psig are available along with a 1/4 inch NPT male threaded process connection. Choose from linear outputs of 4-20 mA or 0-10VDC with electrical connections of either a DIN 175301-803C L-connector or 6.6 foot (2 m) integral shielded cable.

#### Features

- All stainless steel welded sensing element
- · Fast response time
- Pressure sensing ranges from vacuum to 5000 psig
- 1/4 inch NPT male threaded process connection
- Output options: 4-20 mA or 0-10 VDC
- Integral 6.6 foot shielded cable or DIN form C electrical connections
- · Made in the USA
- CE marked
- 3-year warranty

Click on the thumbnail or go to https://www.automationdirect.com/ VID-PR-0001 for a short video on Pro-Sense Air Differential and Pressure Transmitters

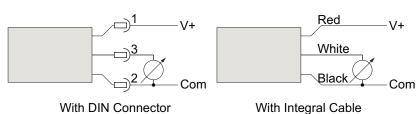


ProSense SPT25 Series Pressure Transmitters (Shielded Cable)					
Part Number	Description	Electrical Connection	Input Voltage	Wt(lb)	Price
<u>SPT25-20-V30A</u>	Pressure transmitter, 4 to 20 mA output, -14.7 vacuum to 30 psig range, 1/4" NPT male port				\$153.00
SPT25-20-0030A	Pressure transmitter, 4 to 20 mA output, 0 to 30 psig range, 1/4" NPT male port				\$153.00
SPT25-20-0060A	Pressure transmitter, 4 to 20 mA output, 0 to 60 psig range, 1/4" NPT male port				\$153.00
SPT25-20-0100A	Pressure transmitter, 4 to 20 mA output, 0 to 100 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-20-0150A</u>	Pressure transmitter, 4 to 20 mA output, 0 to 150 psig range, 1/4" NPT male port		9 - 36 VDC	-	\$153.00
SPT25-20-0200A	Pressure transmitter, 4 to 20 mA output, 0 to 200 psig range, 1/4" NPT male port				\$153.00
SPT25-20-0300A	Pressure transmitter, 4 to 20 mA output, 0 to 300 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-20-0500A</u>	Pressure transmitter, 4 to 20 mA output, 0 to 500 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-20-1000A</u>	Pressure transmitter, 4 to 20 mA output, 0 to 1000 psig range, 1/4" NPT male port				\$153.00
SPT25-20-1500A	Pressure transmitter, 4 to 20 mA output, 0 to 1500 psig range, 1/4" NPT male port			- 0.38	\$153.00
<u>SPT25-20-2000A</u>	Pressure transmitter, 4 to 20 mA output, 0 to 2000 psig range, 1/4" NPT male port				\$153.00
SPT25-20-3000A	Pressure transmitter, 4 to 20 mA output, 0 to 3000 psig range, 1/4" NPT male port	_			\$153.00
<u>SPT25-20-5000A</u>	Pressure transmitter, 4 to 20 mA output, 0 to 5000 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-V30A</u>	Pressure transmitter, 0 to 10 V output, -14.7 vacuum to 30 psig range, 1/4" NPT male port				\$153.00
SPT25-10-0030A	Pressure transmitter, 0 to 10 V output, 0 to 30 psig range, 1/4" NPT male port				\$153.00
SPT25-10-0060A	Pressure transmitter, 0 to 10 V output, 0 to 60 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-0100A</u>	Pressure transmitter, 0 to 10 V output, 0 to 100 psig range, 1/4" NPT male port				\$153.00
SPT25-10-0150A	Pressure transmitter, 0 to 10 V output, 0 to 150 psig range, 1/4" NPT male port				\$153.00
SPT25-10-0200A	Pressure transmitter, 0 to 10 V output, 0 to 200 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-0300A</u>	Pressure transmitter, 0 to 10 V output, 0 to 300 psig range, 1/4" NPT male port		14 - 36 VDC		\$153.00
<u>SPT25-10-0500A</u>	Pressure transmitter, 0 to 10 V output, 0 to 500 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-1000A</u>	Pressure transmitter, 0 to 10 V output, 0 to 1000 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-1500A</u>	Pressure transmitter, 0 to 10 V output, 0 to 1500 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-2000A</u>	Pressure transmitter, 0 to 10 V output, 0 to 2000 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-3000A</u>	Pressure transmitter, 0 to 10 V output, 0 to 3000 psig range, 1/4" NPT male port				\$153.00
<u>SPT25-10-5000A</u>	Pressure transmitter, 0 to 10 V output, 0 to 5000 psig range, 1/4" NPT male port				\$153.00

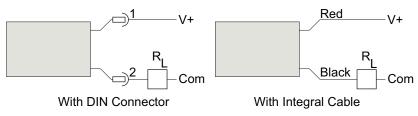
## **Or** Sense SPT25 Series Pressure Transmitters

ProSense SPT25 Series Pressure Transmitters (DIN Connector)					
Part Number	Description	Electrical Connection	Input Voltage	Wt(lb)	Price
SPT25-20-V30D	Pressure transmitter, 4 to 20 mA output, -14.7 vacuum to 30 psig range, 1/4" NPT male port				\$147.00
SPT25-20-0030D	Pressure transmitter, 4 to 20 mA output, 0 to 30 psig range, 1/4" NPT male port				\$147.00
SPT25-20-0060D	Pressure transmitter, 4 to 20 mA output, 0 to 60 psig range, 1/4" NPT male port				\$147.00
<u>SPT25-20-0100D</u>	Pressure transmitter, 4 to 20 mA output, 0 to 100 psig range, 1/4" NPT male port				\$147.00
SPT25-20-0150D	Pressure transmitter, 4 to 20 mA output, 0 to 150 psig range, 1/4" NPT male port				\$147.00
SPT25-20-0200D	Pressure transmitter, 4 to 20 mA output, 0 to 200 psig range, 1/4" NPT male port				\$147.00
SPT25-20-0300D	Pressure transmitter, 4 to 20 mA output, 0 to 300 psig range, 1/4" NPT male port		9 - 36 VDC		\$147.00
SPT25-20-0500D	Pressure transmitter, 4 to 20 mA output, 0 to 500 psig range, 1/4" NPT male port				\$147.00
SPT25-20-1000D	Pressure transmitter, 4 to 20 mA output, 0 to 1000 psig range, 1/4" NPT male port				\$147.00
SPT25-20-1500D	Pressure transmitter, 4 to 20 mA output, 0 to 1500 psig range, 1/4" NPT male port				\$147.00
SPT25-20-2000D	Pressure transmitter, 4 to 20 mA output, 0 to 2000 psig range, 1/4" NPT male port				\$147.00
SPT25-20-3000D	Pressure transmitter, 4 to 20 mA output, 0 to 3000 psig range, 1/4" NPT male port	DIN 175301-803C		0.30	\$147.00
SPT25-20-5000D	Pressure transmitter, 4 to 20 mA output, 0 to 5000 psig range, 1/4" NPT male port				\$147.00
<u>SPT25-10-V30D</u>	Pressure transmitter, 0 to 10 V output, -14.7 vacuum to 30 psig range, 1/4" NPT male port	L-connector		0.30	\$147.00
<u>SPT25-10-0030D</u>	Pressure transmitter, 0 to 10 V output, 0 to 30 psig range, 1/4" NPT male port				\$147.00
<u>SPT25-10-0060D</u>	Pressure transmitter, 0 to 10 V output, 0 to 60 psig range, 1/4" NPT male port				\$147.00
SPT25-10-0100D	Pressure transmitter, 0 to 10 V output, 0 to 100 psig range, 1/4" NPT male port				\$147.00
SPT25-10-0150D	Pressure transmitter, 0 to 10 V output, 0 to 150 psig range, 1/4" NPT male port				\$147.00
SPT25-10-0200D	Pressure transmitter, 0 to 10 V output, 0 to 200 psig range, 1/4" NPT male port				\$147.00
SPT25-10-0300D	Pressure transmitter, 0 to 10 V output, 0 to 300 psig range, 1/4" NPT male port		14 - 36 VDC		\$147.00
<u>SPT25-10-0500D</u>	Pressure transmitter, 0 to 10 V output, 0 to 500 psig range, 1/4" NPT male port				\$147.00
<u>SPT25-10-1000D</u>	Pressure transmitter, 0 to 10 V output, 0 to 1000 psig range, 1/4" NPT male port				\$147.00
<u>SPT25-10-1500D</u>	Pressure transmitter, 0 to 10 V output, 0 to 1500 psig range, 1/4" NPT male port				\$147.00
SPT25-10-2000D	Pressure transmitter, 0 to 10 V output, 0 to 2000 psig range, 1/4" NPT male port				\$147.00
SPT25-10-3000D	Pressure transmitter, 0 to 10 V output, 0 to 3000 psig range, 1/4" NPT male port				\$147.00
<u>SPT25-10-5000D</u>	Pressure transmitter, 0 to 10 V output, 0 to 5000 psig range, 1/4" NPT male port				\$147.00

### 0 to 10 VDC Output Wiring Diagram



### 4 to 20 mA Output Wiring Diagrams



Shielded Cable Models Wire Designation			
Wire Color	0 - 10 VDC Output	4 - 20 mA Output	
Red	V +	V +	
Black	Com	Output	
White	Output	None	
Bare*	Shield Drain Wire	Shield Drain Wire	

\* Where shielded wiring is being used; Connect the drain wire to the guard terminal on the read out device or measuring instrument if available. In all other cases connect to the power supply negative terminal.

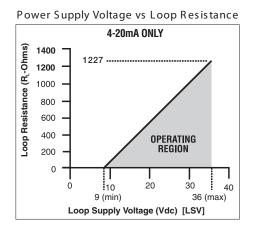
<b>DIN Form C Models Pin Designation</b>			
Pin No.	0 - 10 VDC Output	4 - 20 mA Output	
1	V+	V+	
2	Com	Output	
3	Output	None	
4	Case Ground	Case Ground	

# **Dr**Sense SPT25 Series Pressure Transmitters

ProSense SPT25 S	eries General Specifications	
Housing Material	20% Glass Reinforced Nylon, Fire retardant to UL94 V1 / 304 Series Stainless steel	
Materials (wetted parts)**	304 Series Stainless steel / 17-4PH Stainless Steel	
Operating Temperature	–40 to 257°F (–40 to 125°C)	
Medium Temperature	-40 to 257°F (-40 to 125°C)	
Storage Temperature	–40 to 257°F (–40 to 125°C)	
Protection	IP 67 for cabled models IP 65 For DIN connector models	
Accuracy*	± 0.50% of full range	
Temperature Coefficient	0.15% of full range / 10°F (0.25% of full range / 10°C)	
Reference Temperature	70°F ± 1°F (21°C ± 1°C)	
Compensated Temperature	–4 to 185°F (–20 to 85°C)	
Insulation Resistance	Greater than 100 megohms at 100 VDC	
Shock Resistance	100 gs, 6 ms	
Vibration Resistance	Random vibration (20 g) over temperature range (-40° to 125°C). Exceeds typical MIL. STD. requirements	
Drop Test	Withstands 1 meter on concrete 3 axis	
Response Time	Less than 1 msec	
Warm-up time	Less than 500 msec	
Position Effect	Less than ±0.01% span, typical	
Insulation Breakdown Voltage	100 VAC	
Reverse Polarity & Miswired Protected	Yes	
Durability	Tested to 50 million cycles	
Humidity	0 to 100% R.H., no effect	
Stability	Less than ±0.25% full range / year	
Agency Approvals	CE	
*Note - Includes non-linearity, hyster	esis & non-repeatability.	
** Not cleaned for oxygen service		

DIN Connector Specifications		
Number of contacts	3 + PE	
Cable glands	PG 7	
Conductor size max.	0.75 mm <sup>2</sup> / 18AWG	
Type of termination	Screw	
Suitable cables	4.5 mm to 6mm	
Standard DIN	EN 175 301-803-C	

ProSense SPT25 Series Technical Specifications			
Technical Specifications SPT25-20-xxxx			
Operating Voltage	9 – 36 VDC		
Analog Output	4 – 20 mA		
Maximum Load	Determine Maximum Loop Resistances $\frac{V_L - 9 \text{ VDC}}{0.022 \text{ amps}} = R_L$ For example $[(24 \text{ VDC} - 9 \text{ VDC}) / 0.022 \text{ amps}] = 681\Omega$		
Technical Specifications SPT25-10-xxxx			
Operating Voltage	14 – 36 VDC		
Current Consumption	Current Consumption 4 mA		
Minimum Load	10 kΩ		

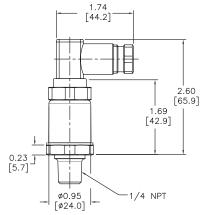


ProSense SPT25 Proof & Burst Pressures			
	Proof	Burst	
500 psig & below	200% full scale	1000% full scale	
1000 – 2000 psig	200% full scale	500% full scale	
3000 psig	200% full scale	500% full scale	
5000 psig	150% full scale	500% full scale	

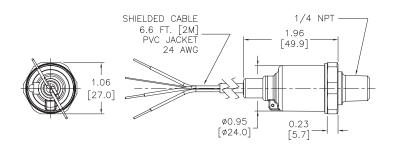
See our website www.AutomationDirect.com for complete Engineering drawings.

#### **Dimensions**

inches [mm]



**DIN Connector Models** 



Shielded Cable Models