

Dynamic pressure sensor

RPT-122 Code: 600-2500

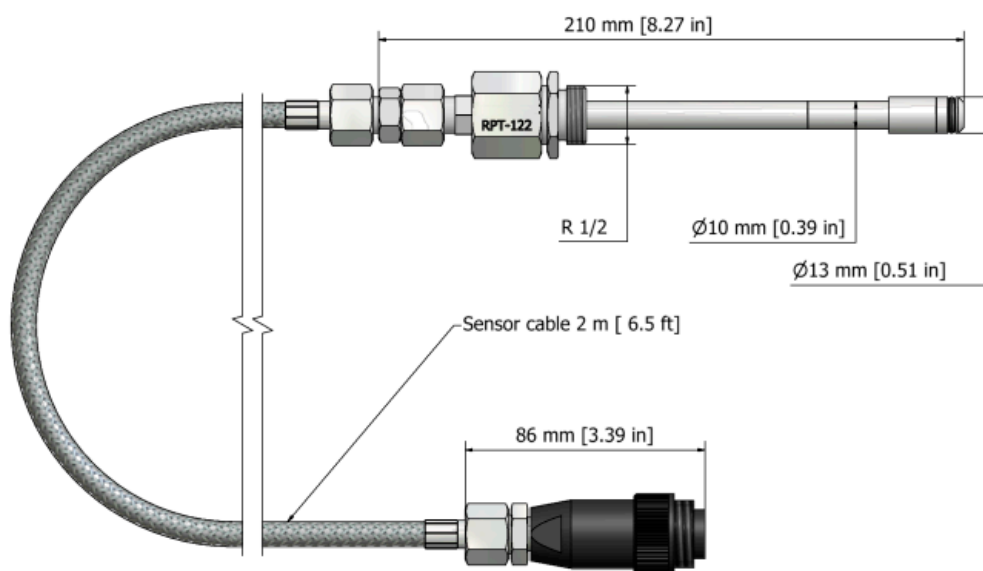
Key features

- Rugged design
- Corrosion resistant



RPT-122 is a sensor for measuring dynamic pressure variations in process. It is typically used for monitoring pulsations in paper machine short circulation and head box, and pneumatic pulsations in doctor blade loading devices. Synchronized measurements can be

utilized to determine the performance of roll covers and pulsation of short circulation pumps and screens. RPT-122 can be used with on-line and off-line condition monitoring systems.



RPT-122 specifications

Performance	Measurement range	690 kPa 100 psi	
	Sensitivity, $\pm 20\%$	6.16 mV/kPa	40 mV/psi
	Resolution	0.014 kPa	2 mpsi
	Resonant frequency	≥ 250 kHz	
	Rise time	≤ 2 μ s	
	Low frequency response, -5%	0.1 Hz	
	Non-linearity	$\leq 2\%$ FS	
Electrical	Operating voltage	24...27 VDC	
	Bias current	2...20 mA	
	Output impedance	$< 100 \Omega$	
	Bias output voltage	8...14 VDC	
Environmental	Temperature range	0...+120 °C	+32...+250 °F
	Storage temperature	-25...+85 °C	-13...+185 °F
	Acceleration sensitivity	≤ 0.0014 kPa/(m/s ²)	≤ 0.002 psi/g
	Max. vibration	2 000 g peak	
	Max. pressure		
	Sensor	6 895 kPa	1 kpsi
	Ball valve	1 000 kPa	145 psi
Physical	Sealing	IP 66	
	Material		
	Sensor	AISI316 or equal	
	Sensor cable	AISI316/PTFE	
	Weight	1.5 kg	3.5 lbs
	Connector	Circular connectors	
	Pin 1	Signal/power	
	Pin 2	Common	