

# Dynamic pressure sensor

RPT-133 Code: 600-2550

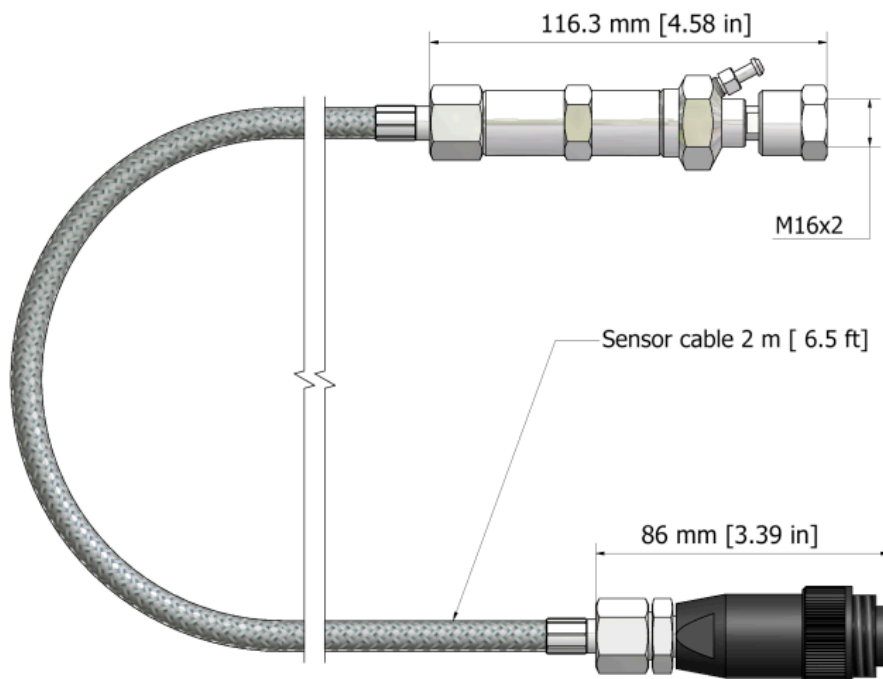
## Key features

- Rugged design
- Corrosion resistant



RPT-133 is a sensor for measuring dynamic pressure variation in hydraulic systems. Typical applications include paper machine shoe press roll hydraulic loading devices and lubrication oil pulsation. Synchro-

nized measurement can be utilized to determine shoe press roll performance. RPT-133 can be used with on-line and off-line condition monitoring systems.



## RPT-133 specifications

### Performance

Measurement range	690 kPa	100 psi
Sensitivity, $\pm 20\%$	7.3 mV/kPa	50 mV/psi
Resolution	0.014 kPa	2 mpsi
Resonant frequency	$\geq 250$ kHz	
Rise time	$\leq 2$ $\mu$ s	
Low frequency response, -5%	0.5 Hz	
Non-linearity	$\leq 1.0\%$ FS	

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### Electrical

Operating voltage	24...27 VDC
Bias current	2...20 mA
Output impedance	< 100 $\Omega$
Bias output voltage	8...14 VDC

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### Environmental

Temperature range	0...+120 °C	+32...+250 °F
Storage temperature	-25...+85 °C	-13...+185 °F
Acceleration sensitivity	$\leq 0.0014$ kPa/(m/s <sup>2</sup> )	$\leq 0.002$ psi/g
Maximum vibration	2 000 g peak	
Maximum pressure		
Sensor	34 475 kPa	5 kpsi
Sealing	IP 66	

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### Physical

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	