

Dynamic pressure sensor

RPT-133 Code: 600-2550

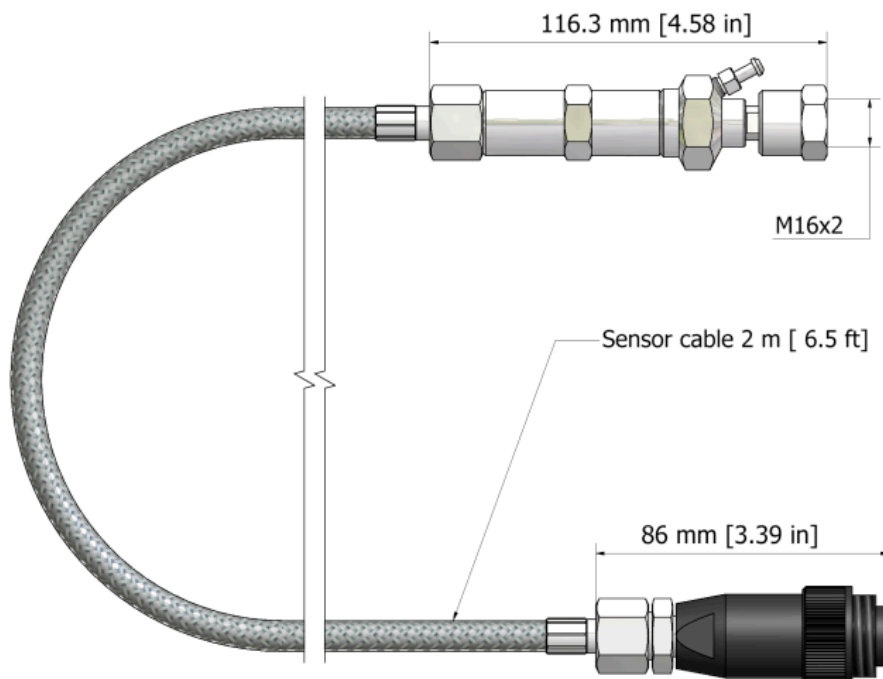
Key features

- 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	≥ 250 kHz	
Rise time	≤ 2 μ s	
Low frequency response, -5%	0.5 Hz	
Non-linearity	$\leq 1.0\%$ 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
Maximum vibration	2 000 g peak	
Maximum pressure Sensor	34 475 kPa	5 kpsi
Sealing	IP 66	

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