



**SARDAR VALLABHBHAI NATIONAL
INSTITUTE OF TECHNOLOGY, SURAT-395 007**

No. MED/Project Grant (4/400)/NAB/1553 / 25-26

Date: 05/08/2025

To,

Institute Website

સામાન્ય ડાક
ORDINARY POST

5 AUG 2025

**SUB: - Enquiry for High Frequency Pressure Sensor for measurement range
of 6 bar and 13 bar**

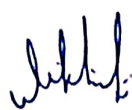
Dear Sir,

You are requested to quote your prices for supply of stores listed overleaf. The quotations may be sent to the undersigned in a sealed envelope and subscribed as: "Quotation with reference to Enquiry No. MED/Project Grant (4/400)/NAB/1553 / 25-26 dtd:01/08/2025. Your quotation should reach the undersigned on or before **21/08/2025 at 5:00 pm.**

The quotations should be furnished with the following information.

- 1) The brand or make of each item should be specifically stated and wherever necessary, Complete set of specifications and dimensions should be given.
- 2) If asked, samples are accompanying the quotations
- 3) Sales tax, General tax, Central Sales tax, Custom duty, Insurance charges, Packing and Forwarding charges, if not included in the prices quoted, should be clearly specified.
- 4) The period of validity of the quotation should be at least 30 Days. Offers subject to prior sale may please be avoided.
- 5) The delivery period is to be clearly mentioned in the quotation.
- 6) The mode of delivery of the stores may be mentioned. The delivery should be F.O.R. Surat or at the Institute.
- 7) All concessions available to an educational institution should be specified and also taken into account while quoting.
- 8) This Institute is located within the limits of S.M.C. & exempted from the paying of octroi duty on incoming goods from outside limits of S.M.C.
- 9) This Institute is registered with the dept. of scientific & industrial Research (DSIR) for the purpose of availing custom duty exemption & central excise duty exemption, and hence the certificate to this effect will be issued wherever it is necessary on demand.
- 10) Payment is normally made by cheque drawn on the S.V.N.I.T. Branch Office of State Bank of India, Surat-395007 within a period of thirty days from the date of receipt of stores.
- 11) Your specifications & terms- conditions should be as per the format attached, must be on your company letterhead & signed by an authorized person.
- 12) Offered quotation may be rejected if any ambiguity is found in offered specifications, terms & conditions supplied by party in specified tabular format.
- 13) The Director reserves the right to accept stores, which are not strictly in confirming with the specifications but otherwise, found suitable.

Yours faithfully,


Head, Mech. Engg. Dept.
3/c

Technical Specifications of High Frequency Pressure Sensor (Measurement range ~6 bar)

Sr. No.	Specification	Requirement
1.	Measurement Range	689.4 kPa
	Useful Over range	1378 kPa
	Sensitivity	7.25 mV/kPa
	Maximum Pressure	6895 kPa
	Resolution	0.007 kPa
	Resonant Frequency	≥ 500 kHz
	Rise Time	≤ 1 μ sec
	Low Frequency Response (- 5 %)	0.5 Hz
	Non-Linearity	$\leq 1.0\%$ FS
	Acceleration Sensitivity	0.0014 kPa/(m/s ²)
	Temperature Range (Operating)	-73 to 135 °C
	Temperature Coefficient of Sensitivity	≤ 0.054 %/°C
	Maximum Flash Temperature	1650 °C
	Maximum Vibration	19600 m/s ² pk
	Maximum Shock	196,000 m/s ² pk
	Discharge Time Constant (at room temp)	>1.0 sec
	Excitation Voltage	20 to 30 VDC
	Constant Current Excitation	2 to 20 mA
	Output Impedance	≤ 100 Ohm
	Output Bias Voltage	8 to 14 VDC
	Sensing Element	Quartz
	Housing Material	Stainless Steel
	Diaphragm	Invar
	Sealing	Welded Hermetic
	Co-axial cables – 3 ft. (1 Qty.)	Low noise co-axial cable, blue TFE jacket, 3 ft, BNC plug to BNC plug

Signature

Technical Specifications of High Frequency Pressure Sensor (Measurement range ~ 13 bar)

Sr. No.	Specification	Requirement
1.	Measurement Range	1379 kPa
	Useful Over range	2758 kPa
	Sensitivity	3.6 mV/kPa
	Maximum Pressure	6895 kPa
	Resolution	0.007 kPa
	Resonant Frequency	≥ 500 kHz
	Rise Time	≤ 1 μ sec
	Low Frequency Response (- 5 %)	0.5 Hz
	Non-Linearity	$\leq 1.0\%$ FS
	Acceleration Sensitivity	0.0014 kPa/(m/s ²)
	Temperature Range (Operating)	-73 to 135 °C
	Temperature Coefficient of Sensitivity	≤ 0.054 %/°C
	Maximum Flash Temperature	1649 °C
	Maximum Vibration	19600 m/s ² pk
	Maximum Shock	196,000 m/s ² pk
	Discharge Time Constant (at room temp)	>1.0 sec
	Excitation Voltage	20 to 30 VDC
	Constant Current Excitation	2 to 20 mA
	Output Impedance	≤ 100 Ohm
	Output Bias Voltage	8 to 14 VDC
	Sensing Element	Quartz
	Housing Material	Stainless Steel
	Diaphragm	Invar
	Sealing	Welded Hermetic

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