University of Calcutta

Dept. of Applied Physics
UCSTA
92 APC Road, Kolkata 700009

Tender Notice

Enq. No.: AP/ENQ/DST/SC/22-23/002

Date:13/05/2022

To
The All Interested Parties
Dear M/s.
Please submit the quotation within **31/05/2022 (4 PM)** at the Office of the Department of Applied Physics for DST-GOI project (Sanction Detail: **DST/TMD/CERI/RES/2020/22(G) dtd: 03/09/2021) for** the following item according to the specification mentioned.

Please enclose the copy of the following papers along with the quotation.

1. Trade License, 2. PAN Card, 3. VAT & Service Tax Registration wherever necessary

CURRENT PROBE

Technical Specification

The Current Probe should have following features:

Bandwidth	DC to ≥120 MHz
Rise time	≤2.92 ns
Maximum DC current	30 A
Maximum RMS current	30 A
Maximum peak pulse current	50 A
Maximum bare wire voltage	150 V CAT II, (insulated wire 300 V CAT II)
Sensitivity	1 mA (on oscilloscopes that support 1 mV/div setting)
DC accuracy	±3% warranted
Accuracy, typical DC:	±1% of reading DC to 60 Hz, ≤5 A: ±1% 60 Hz – 5 kHz, ≤5 A: ±1.5% DC – 5 kHz, >5 A: ±1.5%
Maximum Amp-Second product	500 A*µs (in 30 A range)
Insertion impedance	1 mΩ at 10 kHz 3.5 mΩ at 100 kHz 0.08 Ω at 1 MHz

	0.15 mΩ at 10 MHz 0.7 Ω at 100 MHz 0.85 Ω at 120 MHz
Signal delay	14.5 ns
Current ranges	5 A and 30 A
Physical characteristics	
Temperature	
Operating	0 °C to 50 °C (32 °F to 122 °F)
Non-operating	-40 °C to +75 °C (-40 °F to 167 °F)
Humidity	
Operating	5% to 95% Relative Humidity (RH) at up to +30 °C; 5% to 85% RH above 30 °C up to +50 °C, noncondensing
Nonoperating	5% to 95% Relative Humidity (RH) at up to +30 °C; 5% to 85% RH above 30 °C up to +75 °C, noncondensing
	Current Probe should have TekVPI interface for interfacing with Tektronix MDO Oscilloscope.

A. Terms and Condition:

Warranty: Warranty from manufacturer for thirty six months from the date of installation should be offered.
Customs Clearance and Delivery: up to Calcutta University, Rajabazar campus from Kolkata Airport must be taken care by supplier. All necessary expenses for the same will be to supplier's account.
Installation: The item should be installed and demonstrated in the laboratory within one month of delivery.

Dr. Sumana Chowdhuri
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DST-GOI Project
Professor
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University of Calcutta