

प्रौद्योगि की स्थानांतरण केलिए पसंद की अभिव्यक्ति

EXPRESSION OF INTEREST for TRANSFER OF TECHNOLOGY

अल्ट्रासोनिक टैकोमीटर

Ultrasonic Tachometer

(UT-200 Mk1)



प्रगत संगणनवि का सकेन्द्र

इलेक्ट्रॉनिकी और सूचना प्रौद्योगि की मंत्रालय, भारत सरकार)

तिरुवनंतपुरम, केरल 695033

द्वाराजारी।

टेलीफोन: 0471 2727508 फैक्स: 0471 2723456 ईमेल: tpc@cdac.in

वेबसाइट: www.cdac.in

Issued by

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

(The Premier R&D organization of the Ministry of Electronics and Information Technology (MeitY), Govt. of India)

Thiruvananthapuram, Kerala, 695033

Phone: 0471 2727508 Fax: 0471 2723456 Email: tpc@cdac.in

Website: www.cdac.in

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Disclaimer

The Bidders may download the EOI Documents from www.cdac.in . The Bidders are requested to read this document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/ instructions given in this document may disqualify the bidders for the EOI exercise. The Bidders are required to upload their Bids as per the terms and conditions given in this Document.

While C-DAC(T) has taken due care in the preparation of information contained herein and believes it to be accurate, neither C-DAC or any of its authorities, agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it.

This information is not intended to be exhaustive and interested Bidders are required to make their own inquiries in order to submit the bids. The information is provided on the basis that it is non-binding on C-DAC, any of its authorities, agencies or any of their respective officers, employees, agents or advisors.

C-DAC reserves the right not to proceed with the Bid process at any stage without assigning any reasons thereof, or to alter the contents of this document or the timetable reflected in this document or to change the process or procedure to be applied.

It also reserves the right to decline to discuss anything with respect to the EOI/Bid further with any party submitting the bid.

C-DAC will not be liable to pay / reimburse any cost / losses / expenses / penalties / damages of whatsoever nature to any person (s)/entity (ties) submitting the bid. The Bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of bid, providing any additional information required by C-DAC to facilitate the evaluation process, and in negotiating a valid contract or all such activities related to this EOI. C-DAC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the EOI process.

Incomplete Interests, amendments and additions to EOI after opening or late Interests are liable to be ignored and rejected.

Each Bidder shall submit only one Bid for the transfer of Technology. The Bidder who submits more than one Bid or part Bid will be treated as non-responsive & rejected summarily.

Submission of false document(s) by bidder is strictly prohibited and will be liable for rejection of the bid.

Bidders who are confident of complying the terms and conditions of ToT need only participate in this EOI Process.

1. Introduction

Centre for Development of Advanced Computing (C-DAC) invites **“Expression of Interest”** (EOI) from Indian companies for transfer of technology (ToT) from C-DAC and to subscribe, acquire licenses, market, sell and implement **“Ultrasonic Tachometer (UT-200 Mk1)”** targeting **industrial/automotive/strategic applications** on non- exclusive basis.

Through this EOI, sealed financial H1 bid is invited on behalf of M/s Technology Promotion Centre, C-DAC, Thiruvananthapuram from reputed firms / companies registered in India, with relevant experience / insights in the manufacturing / marketing / implementation of products through Transfer of Technology (ToT) and Licensing. Bidders from countries sharing a land border with India can participate in this EOI only if they are registered with the Department of Promotion of Internal Trade (DPIIT) of the Indian Government.

This document details about the product, terms and conditions for companies to propose their Expression of Interest and how to enter into Transfer of Technology (ToT) agreement based on the terms given herein.

2. Brief about C-DAC

Centre for Development of Advanced Computing (C-DAC) is the premier R&D organization of the Ministry of Electronics and Information Technology (MeitY), Govt. of India for carrying out R&D in IT, Electronics and associated areas. It is a National Centre of Excellence, pioneering application-oriented research, design and development in Electronics and Information Technology.

The Centre has contributed significantly to the growth of the industry in general and the electronics sector in particular through the indigenous development of commercially viable systems and products, foreign technology absorption, adaptation and upgrades, consultancy and training and turnkey implementation of contract projects. The Centre has several firsts to its credits and is the recipient of prestigious national level awards for excellence in application-

oriented R & D

The Mission mode programmes of C-DAC include High Performance Computing, Grid and Cloud Computing, Multilingual Computing & Heritage Computing, Strategic Electronics, VLSI and Embedded systems, Software technologies, Cyber Security & Cyber Forensics, Health Informatics, Intelligent Transportation Systems and others.

3. Brief description about the technology to be transferred

Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram, has successfully designed and developed a novel ultrasonic-based tachometer for rotational speed measurement. Rotational speed sensing plays a crucial role in numerous industrial, automotive, and strategic applications, where accurate, reliable, and contactless measurement is essential for performance monitoring, safety, and process control.

About Rotational Speed Sensing and its Applications

Rotational speed sensing is widely used in industries such as manufacturing, transportation, energy, and defence, enabling monitoring and control of motors, engines, turbines, and rotating machinery. Applications range from automotive engine monitoring to industrial process automation, predictive maintenance, and safety systems in strategic sectors.

Limitations of Existing Technology

Existing rotational speed sensing technologies, such as optical, magnetic, or mechanical methods, often face limitations when deployed in harsh environments. They may be sensitive to dirt, dust, oil, temperature variations, electromagnetic interference (EMI), and material type of the target. Maintenance and calibration needs can also increase lifecycle costs.

Novelty and Advantages of Ultrasonic Technology

Rotational speed sensing based on ultrasonic technology is relatively a novel concept, and no commercial ultrasonic speed sensor has been available so far in the market for rotary speed measurement in industrial and automotive applications. Ultrasonic sensors offer advantages such as ruggedness, reliability, stability, wide measuring range, high sensitivity, high linearity, wide operating temperature range, insensitivity to target material, EMI and radiation immunity, high chemical stability, and low cost. These advantages make ultrasonic-based speed sensors an excellent choice for industrial and automotive speed sensing in harsh environments.

About UT 200

Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram, has successfully developed a first-of-its-kind Ultrasonic Tachometer, UT 200, meeting a specified speed range of 10 RPM to 5000 RPM with a measurement accuracy of <0.1%. The technology offers a novel non-contact rotational speed sensing solution, suitable for various industrial, automotive, and harsh environment applications.



UT-200



Demonstration and Calibration Setup

UT-200 Ultrasonic Tachometer – Key Features

- **First-of-its-Kind Using Ultrasonic Technology**
- **Patent Pending Technology**
- **Precision better than 0.1% for critical applications**
- **Non-Contact Measurement**
- **Harsh Environment Operation**
- **Immune to magnetic interference; reliable in tough industrial settings**
- **Material Independent** – Compatible with various gear wheel materials
- **Speed Update** – One second
- **USB Interface**
- **Compact & Light weight**
- **Power** – Li-Ion battery (3000mAh) powered.
- **More than 8 Hrs continuous operatio**
- **Cost-Effective Solution**
- **Versatile Applications** – Suitable alternative to Hall effect and laser based speed measurements, effective in noisy/harsh environments.

UT-200, Ultrasonic Tachometer – Specifications

Parameter	Specification
Range	10 RPM – 5000 RPM
Accuracy	Better than 0.1%
Resolution	Better than 0.1%
Repeatability	< 0.1%
Airgap distance	20 mm ± 5 mm
Gear wheel	120-tooth, 2.6 mm pitch (customizable)
Speed updation	1 sec
Display unit	RPM
Display	1.3" OLED
Enclosure	ABS plastic
Weight	200 g approx
Dimension (L×W×T)	170 mm × 75 mm × 30 mm

The product brochure of the UT-200 is enclosed. A Google Drive link to a video demonstrating the operation of the UT-200, including a performance comparison with a FLUKE-931 laser tachometer, is also provided.

https://drive.google.com/drive/folders/1B8efPfnthTRA7PJFILzPFG_8j6RKpDL

The product is ready for demonstration at our lab (Strategic Electronics Group, C-DAC Thiruvananthapuram, Kerala).

Technology Differentiation

Parameter	Hall-effect Sensors	Ultrasonic Sensor
Sensor contact	Proximity with magnet	Fully non-contact
Target dependency	Magnetic only	Any reflective target (e.g., gear tooth)
EMI susceptibility	High	Low (ultrasound-based)
Environment tolerance	Moderate (dust, oil, EMI)	High
Sensing through enclosure	Not possible	Possible through acoustic window
Temperature tolerance	Limited	Can be extended with housing

Application Opportunities

Sector	Use Case	Ultrasonic Sensor Advantage
Industry	Motor/gearbox/conveyer RPM monitoring	Works in dusty, oily, high-vibration zones
Marine	Winch/propeller shaft RPM	Corrosion-resistant, works in splash environments
Automotive	Engine control, ABS, transmission and traction control	Immune to inverter EMI, no magnets required
Railway	Traction motor speed, wheel speed	Sensor proximity not required, immune to EMI, nonmagnetic target
Defense	Turret/antenna platform speed	EMI-shielded, long-term reliability
Robotics	Enclosed gearbox monitoring	Compact, sealed, contactless

4. Invitation for Expression of Interest

- 4.1 C-DAC invites “Expression of Interest” (EOI) in the format given in Annexure-1 (Part A & Part B). Companies can become ToT partner of C-DAC based on the information furnished in Annexure – I, subject to the assessment by the C-DAC.
- 4.2 Expression of Interest (EOI) also seeks from interested industry vendors to offer the best price for one time ToT license fee for all the listed items.
- 4.3 The highest price offered by a vendor shall be designated as H1 price. This price shall be fixed as the license fee for the ToT.
- 4.4 This invitation of EOI will be open till **13/04/2026**. The financial bids received till the last date of EOI shall only be evaluated to arrive at the final price for the ToT license fee.
- 4.5 Interested bidders may submit the expression of interest (see section 5.0 and section 6.0)
- 4.6 The EOI bids received from the bidders shall be evaluated to identify the H1 bid. Evaluation of the received bids and its short listing shall be based on presentation by the bidders and the assessment of the technical and financial capability of the bidders.
- 4.7 After the evaluation, the cost finalised by C-DAC for the ToT will be informed to all the bidders who have participated in the EOI.
- 4.8 The draft ToT agreement will be shared with the interested and eligible bidders. If the eligible bidders agree to the terms and conditions of the agreement, the agreement may be signed after payment of the one-time ToT license fee as stipulated in the payment terms for that product. After the execution of the ToT Agreement and payment of one time license fee, the bidder then becomes eligible for becoming transfer of technology partner of CDAC as per the terms in the Transfer of technology MOA.
- 4.9 Participation in this EOI does not guarantee any association with C-DAC, unless the agreement is signed.
- 4.10 The technology is offered on non-exclusive basis.
- 4.11 Sale of products generated using this technology transfer is limited within the territory of India. Any sales, transfers, or exports of the product manufacture using the acquired technology outside India shall require prior written approval from C-DAC.
- 4.12 The ToT granted will be non-transferable. The ToT partner shall not assign, sublicense, or transfer the acquired technology to any third party without obtaining prior written consent

from C-DAC.

- 4.13 C-DAC reserves the right to publish the EOI again for ToT of the product mentioned in this EOI for other companies to acquire the technology in future.
- 4.14 The submission of the EOI shall include all such documents that are specified herein to prove the authenticity of their offer and any claim made therein. All cost and expenses associated with submission of EOI shall be borne by the bidder while submitting the EOI and C-DAC shall have no liability, in any manner in this regard, or if it decides to terminate the process of short listing for any reason whatsoever.
- 4.15 C-DAC reserves the right of rejecting any offer without assigning reasons.
- 4.16 C-DAC reserves the right to disqualify any bidder should it be deemed so necessary at any stage on the grounds of national security.
- 4.17 There is neither a business guarantee nor any commitment for funding support from C-DAC to the selected ToT partner.

5. Who can Apply

Any Indian Company including MSMEs or Start Ups willing to acquire licenses, market, sell and implement “Ultrasonic Tachometer (UT-200 Mk1)” can apply.

Bidders from countries sharing a land border with India can participate in this EOI only if they are registered with the Department of Promotion of Internal Trade (DPIIT) of the Indian Government. They have to submit the required self-declaration confirming their eligibility and restriction status as per the format attached herewith as Annexure -III.

6. How to Apply

Interested companies may send expression of interest by filling the template as per Annexure – 1 along with supporting documents to

Section Head, Technology Promotion Centre

Centre for Development of Advanced Computing (C-DAC)

Vellayambalam, Thiruvananthapuram, Kerala, India, 695033

Phone: 0471 2727508 Fax: 0471 2723456

Email: tpc@cdac.in Website: www.cdac.in

7. ToT Agreement (How to Subscribe)

- 7.1 The ToT partner is selected based on the expression of interest submitted by interested bidders.
- 7.2 If selected, the party shall pay onetime ToT license fee and sign the ToT agreement to become ToT partner of C-DAC. Onetime ToT license fee finalised by C-DAC shall be informed to all the bidders who have participated in the EOI.
- 7.3 C-DAC shall sign the technology transfer agreement with the party on receiving the onetime ToT license fee as stipulated in the payment terms.
- 7.4 The license will be granted on Non-Exclusive basis.
- 7.5 The party shall pay royalty to C-DAC for each unit manufactured. C-DAC will issue product activation licenses once royalty charges are paid by the company. The company can activate the product using the product activation license.
- 7.6 No ToT partner will be allowed to quote for any projects based on the above charges unless they enter into an agreement with C-DAC and pay the one time ToT license fee. The ToT license fee is non-refundable. In case any party offer /quotes the rates without an agreement with C-DAC, C-DAC will not honour the rates/ will not give the ToT to such party.

8. One time ToT license Subscription Validity & Renewal of ToT agreement

- 8.1 Payment of one time ToT license fee grants the party, subscription validity for a period of 3 years from the date of signing of the agreement
- 8.2 For continued support beyond 3 years the party shall be required to renew the ToT agreement by paying the subscription charges, (to be quoted in Annexure-II- Financial Bid Format) before the expiry of valid subscription, which will be valid for a further extended period of two years.
- 8.3 If the renewal is initiated after the stipulated period, a fresh ToT agreement need to be signed by the ToT partner based on the EOI conditions prevailing at that time.
- 8.4 After five years (from the date of signing the ToT agreement) a new ToT agreement is to be signed by the successful bidder based on the EOI conditions prevailing at that time.
- 8.5 The ToT partner should have a valid ToT subscription license for providing any technical support on the ToT deliverables made by C-DAC.

8.6 Any customisation requirements of the ToT partner shall be entertained by C-DAC only if a valid ToT subscription exists. Such customisations shall be undertaken by C-DAC at cost basis on mutually agreed terms and conditions.

9. C-DAC Deliverables

9.1 On payment of one-time license fee and signing of ToT agreement, the following list of items shall be provided by C-DAC to the ToT partner for production, product marketing support and PoC demonstration.

1. Technical Manual
2. Bill of Materials
3. Sourcing Details
4. Assembly Details
5. PCB Gerber files
6. Binary Files
7. Schematics
8. Production documents
9. Test plan & Procedures
10. Training

10. Training for ToT Partners

10.1 C-DAC shall arrange one day product level introductory training to the ToT partner at Thiruvananthapuram Centre (C-DAC(T)) after signing of ToT agreement.

10.2 Upon 100% payment of one time ToT subscription license fee detailed production level training and on application development Of Ultrasonic Tachometer (UT-200 Mk1) shall be provided up to three working days.

10.3 The training will be conducted at C-DAC(T) premises.

10.4 The travel and boarding and lodging expenses of the trainee(s) during the period of training shall be borne by the ToT partner.

10.5 For training requested outside C-DAC (T) premises air travel, boarding and lodging charges of C-DAC (T) officials shall be borne by the ToT partner. C-DAC shall also charge manpower as per C-DAC rules prevailing at the time of training for outstation training. Nomination of the C-DAC

trainers and period of stay for outstation training will be decided by C-DAC on mutual consultation, depending on the type of training requested.

- 10.6 Additional training may also be given by C-DAC either at the premises of C-DAC (T) or at the location identified by the ToT partner on payment basis at mutually agreed terms and conditions.

11. Field implementation support

- 11.1 C-DAC(T) shall provide remote support to the ToT partner for installation and configuration of Ultrasonic Tachometer (UT-200 Mk1) during the licence period on case to case basis upon mutually agreed terms and conditions.
- 11.2 If any onsite support is requested by the ToT partner, C-DAC (T) shall support on mutually agreed terms and conditions.
- 11.3 For onsite support outside C-DAC premises travel, boarding and lodging charges of C-DAC (T) officials shall be borne by the ToT partner. C-DAC shall also charge manpower as per C-DAC rules prevailing at the time of support request for outstation support. Size of the C-DAC (T) team and period of stay for outstation support shall be decided by C-DAC(T) on mutual consultation, depending on the type of support requested.

12. Direct implementation by C-DAC

- 12.1 C-DAC reserves the right to implement Ultrasonic Tachometer (UT-200 Mk1) directly at sites where C-DAC is awarded orders for implementation directly by the end user.
- 12.2 If C-DAC is implementing Ultrasonic Tachometer (UT-200 Mk1) directly, then the cost at which C-DAC will be offering the solution to the end user will be 140% of the product cost finalised by C-DAC.

13. Payment terms for One Time ToT Subscription License and Software subscription License

- 13.1 Selected parties shall pay the one-time ToT license fee in two instalments. First instalment of 60% plus applicable taxes shall be paid upon signing the agreement and balance 40% plus applicable taxes should be paid at the time of the handover of ToT deliverables.
- 13.2 Start-up companies shall pay the one-time ToT license fee in three instalments. First instalment of 30% plus applicable taxes shall be paid on signing the agreement. Second instalment of 30% plus applicable taxes shall be paid at the time of handing over of all hardware manufacturing documents. Balance 40% plus applicable taxes should be paid at the time of handing over of all remaining ToT deliverables including software for operationalizing the hardware resource. The payment of 3rd instalment shall be completed within 12 months period of payment of first instalment. Startups recognized by DPIIT only will be eligible for this clause, else they shall make payment as mentioned in clause 13.1.
- 13.3 Activation license shall be procured in advance by ToT Partner from C-DAC after paying royalty fee for each unit manufactured and sold to the client.

For any queries please contact:

Section Head (Technology Promotion Centre)
Vellayambalam, C-DAC, Thiruvananthapuram
Contact: 0471 2727508, 0471 2723333 (extn: 3249),
email: tpc@cdac.in

Annexure –I (Part-A) : Company Profile of the bidder

A.	Company Profile
1.	Name of the Organization: Website:
2.	Name of the Contact Person: Address: Mobile: Landline: Fax: E-Mail:
3.	Year of Incorporation:
4.	Type of Organization <ul style="list-style-type: none"> a. Public Sector/ Limited/Private Limited/ Partnership/Proprietary/ Society/ Any other b. Whether 'Foreign Equity Participation (Please give name of foreign equity participant and percentage thereof) c. Names of Directors of the Board/ Proprietors d. Name and address of NRI(s), if any
5.	Category of the firm: Large/Medium/Small scale unit / Others
6.	Address of the Registered Office: (Include Certificate of Registration)
7.	Number of Offices with addresses (Excluding Registered Office): India, Abroad:.....
8.	Certificate of registration as a manufacturing unit
9.	Permanent Account Number
10.	GST Reg. No.
11.	ISO or any equivalent Certification

Annexure – I (Part B) : Technical Collaborations of the bidder

B.	ESSENTIAL REQUIREMENTS
1.	The organization must be a reputed firm/company/SME/startup/R&D company incorporated in India. If the bidder is from the countries sharing land border with India, then it must be registered with the Department of Promotion of Internal Trade (DPIIT) under the Indian Government.
2.	The companies who shall be responding to EOI must be in existence for at least 3 years. The turnover is to be supported by financial statements of accounts/ Annual reports duly certified by a Chartered accountant/ Balance sheets of last 3 years (2022-23,2023-24 & 2024-25)/ Income tax returns for the last 3 years period (2022-23,2023-24 & 2024-25).
3.	Company profile, giving details of current activities and management/ personnel structure including evidence of incorporation. The company should be registered and ISO or equivalent certified.
4.	Details of absorption of technology for a product/knowhow that has been taken up on production scale in the past may also be given
5.	The manpower strength (Technical: Mechanical, Electrical, Electronics, Software & Non-Technical etc.) at various levels to be furnished Technical: a. B.E./ B.TECH/PhD b. DIPLOMA c. SKILLED TECHNICIANS d. UNSKILLED
6.	The list of machine tools /equipment/software/facilities available related with work to be furnished.
7.	The in-house technological expertise available to be furnished
8.	The list of equipment available for inspection and quality control to be furnished.
9.	The industry should have adequate space for undertaking this work. Available space - Covered & Open and location details to be furnished.
10.	List of products/technologies worked with as regular activity in last three years. Give the list of products/technologies with general specifications and the customers.
11.	List of PSUs/Govt.customers – with contact details (Address, Telephone no., Contact Person)
12.	The details of sales, marketing and maintenance network to be furnished
13.	The list of technical collaborators for various ongoing products may be furnished
14.	The bidder shall provide details of the sub-vendors in case they propose to employ for Part-work.
C.	Expression of Interest: Spell out the extent of interest and envisaged market potential

I hereby declare that the above information is true to the best of my knowledge.

Signature with Name & Seal:

Place:

Date:

Annexure-II Financial Bid Format

(To be submitted in sealed envelope / by mail)

Price bid for One Time ToT License Subscription cost

Sl. No.	Product	One Time ToT license Fee for 3 years (excluding taxes)	ToT license fee for the extended period (4 th & 5 th year)in Rs. (excluding taxes)
1	Ultrasonic Tachometer (UT-200 Mk1)		

Price bid for Royalty Charges

Sl. No.	Product	Expected Selling price of the system (excluding taxes)	Royalty fee (in %) for the each unit manufactured
1	Ultrasonic Tachometer (UT-200 Mk1)		

Annexure-III Border Clause

FORMAT

for Undertaking with respect to Compliance of Restrictions for Countries which share land border
with India

as stipulated by Govt. of India.

(On Company Letter Head, to be signed by the duly authorized person)

Date:

EOI NO. :

TITLE OF EOI :

To,

Centre for Development of Advanced Computing (C-DAC),

Dear Sir/Madam,

In line with the guidelines issued for compliance of Restrictions for Countries which share land border with India – as issued by Govt. of India in July'2020, I/We have read the clause regarding restrictions on procurements from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries.

a. I/We certify that we are not from such a country or if from such a country has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.

b. I/We certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Applicable for works involving possibility of sub-contracting)

I/We hereby certify that I/We fulfil all requirements in this regard and am/are eligible to be considered. [Evidence of a valid registration by the Competent Authority shall be attached]

Name and Signature of the Authorised Signatory.

UT-200 Mk1 ULTRASONIC TACHOMETER

First of its kind using Ultrasonic technology

The UT-200 Mk1 is a digital, portable ultrasonic tachometer designed for precise measurement of rotational speed. The UT-200 Mk1 is the first of its kind tachometer based on ultrasonic technology. Leveraging advanced patent pending ultrasonic technology, it utilizes a highly focused ultrasonic beam to accurately resolve a 120-tooth, 2.6 mm pitch gear wheel (signal plate), ensuring superior speed measurement resolution and accuracy. The UT-200 Mk1 ultrasonic tachometer can measure rotational speeds ranging from as low as 10 RPM to over 5,000 RPM. The device features a 1.30-inch OLED display that updates the speed in RPM every second. For enhanced usability, the UT-200 Mk1 includes a USB interface that facilitates communication with external devices and allows configuration based on gear wheel parameters. Powered by a rechargeable lithium-ion battery, it provides more than 8 hours of continuous operation on a single charge. The device's charging system ensures protection against mains supply fluctuations by isolating the circuitry during charging. With a compact design, 170 mm in length, 75 mm in width, and 30 mm in thickness. The UT-200 Mk1 weighs just 200 grams, making it both lightweight and portable. It is easy to operate, requiring minimal training, and is ideal for replacing hall effect based and laser based speed measurements, particularly in harsh or magnetically noisy environments.



FEATURES

- First of its kind using ultrasonic technology
- Patent pending technology
- Digital and portable tachometer
- Non-contact measurements
- Operation in harsh environments
- Immune to magnetic interference
- Compatible with various gear materials
- Upto 120 tooth, 2.6mm gear wheel plate
- Speed updation every second
- USB interface for external communication
- Li-Ion battery powered (3000 mAh)
- 8Hrs continuous operation
- Compact and light weight
- Charging during operation
- Simple and cost effective
- Industrial, automotive, strategic applications etc

SPECIFICATIONS

Range	: 10 RPM – 5000 RPM
Accuracy	: Better than 0.1%
Resolution	: Better than 0.1 %
Repeatability	: < 0.1%
Airgap distance	: 20 mm +/- 2 mm
Gear wheel	: Up to 120-tooth, 2.6 mm pitch (Customizable)
Speed updation	: 1 sec
Display unit	: RPM
Display	: 1.3" OLED
Enclosure	: ABS
Weight	: 200 g
Dimension (L x W x T)	: 170mm x 75mm x 30mm



Designed and Developed by Strategic Electronics Group,
C-DAC Thiruvananthapuram



For queries

✉ headseg@cdac.in

☎ 0471-2723333 Ext:3456