

**Enquiry No: R211D0022**

**Date: 15/04/2021**

**Due Date: 22/04/2021**

ITI LIMITED,R&D Purchase,  
Bangalore Plant,  
Dooravani Nagar,  
BANGALORE,-560 016  
Phone : 080-28503675  
Fax: 080-25650971  
Email : mmr\_bgp@itiltd.co.in

Originators : R & D, I.T.I LIMITED,DOORVANINAGAR

Dear Sir,

Please quote your prices and delivery for the following items as per the terms and Conditions given.

Item No.	Description of Material	Qty. Reqd.	Instructions for submission of tenders
1.	<b>Oxygen Sensor</b> <b>P/N: OOM 204</b>  (Specifications and Terms & Conditions are enclosed)	<b>25 Nos</b>	<ol style="list-style-type: none"><li>1. Quotation must be submitted in duplicate, <b>superscribed with our tender number &amp; due date</b> and should reach us well before DUE DATE. Open and/or late tenders and tenders without enquiry nos. are liable for rejection.</li><li>2. All offers should be complete with specification and catalogue and samples where specified.</li><li>3. Validity : Quotation should be valid for a period of 180 days from the due date of tender. Prices must remain firm till completion of order.</li><li>4. Payment: Bills will be paid within 45 days from receipt of</li></ol>

			materials. 5. Failure to adhere to any of the above, will disqualify the offer.
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PL. QUOTE FOR REQUIRED QTY. ONLY.

Yours Faithfully,  
For I T I Limited

M.DIWAKAR BHAT,  
Materials Manager(R)  
R & D Purchase

Note: For the technical specifications, compliance statement should be provided for all points mentioned. The compliance has to be indicated individually point wise against each Sl. No. of the specifications listed. If the compliance statement is not provided the offer is liable to be rejected.

TERMS AND CONDITIONS FOR SUBMISSION OF TENDER

1. Inspection: Inspection of goods at our works is final. Goods rejected will be returned on freight to pay basis. Packing & forwarding charges in respect of such consignment will be debited to your account.
2. We reserve the right to accept or reject any or all offers and part or full quantity, without assigning any reason.
3. Please specify your income Tax Account Number and name of I.T. Circle.
4. The quote must be for the quantity specified in the enquiry and should also indicate slab rates for multiples of the quantity enquired.
5. Components to be supplied shall be from the latest batch of production. If terms are offered from stocks the lot/batch code shall not be earlier than 2 years from the date of shipment.
6. Liquidated Damages and risk purchase clauses: Time is the essence of contract and the materials against the order arising out of this enquiry must be delivered by the supplier according to the delivery schedule indicated in the purchase order. In case of any change, the supplier should inform us in advance and obtain our approval to the revised delivery schedule. Should the supplier fail to deliver the material in full or part thereof, we shall be entitled at our option either to recover from the supplier as agreed the liquidated damages and not as penalty, a sum equivalent to half percent of the contract price of the item per week for first four weeks and 0.7% per week thereafter for such delay or part thereof or to terminate the contract in respect of the balance supply so delayed and purchase material elsewhere at the risk of the supplier.
7. FOR INDIGENEOUS OFFERS ONLY:
  - (a) PRICES should always be quoted on F.O.R KRISHNARAJPURAM basis including suitable packing.

- (b) Specify applicable statutory levies, e.g. Central excise duty, sales tax, etc.  
In absence of these, the prices shall be treated as inclusive of all such levies & no subsequent claims will be entertained.

8 FOR FOREIGN OFFERS ONLY.

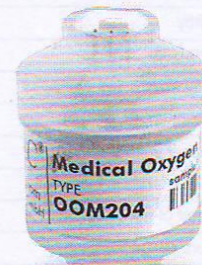
- (a) Prices must be quoted on F.O.B. Port of dispatch or airport and indicate estimated charges for dispatch by AIR FREIGHT/AIR POST PARCEL to BANGALORE.
- (b) Prices quoted must include Agency Commission (if any) to your Indian Agents. The same must be specified, which is payable to them in Indian Rupees.
- (c) Payment: Letter of credit or sight draft through the STATE BANK OF INDIA, BANGALORE- 560 016, as detailed below:  
“ITI” will bear only LC establishment charges once & bank charges of State Bank of India. All foreign bank’s charges (i.e. charges while negotiating documents when the same are sent on the collection basis due to certain discrepancies in the presentation of documents (LCBCs etc.) are to be borne by Foreign Suppliers. In case of order placed on sight draft basis (FLCSAs) also, the invoice amount will be paid & all the foreign bank’s charges are to the supplier’s account.

Please furnish your Banker’s name and address for this purpose.

## Oxygen Sensor OOM204

### Use the advantages:

- Compliant with European MDD (CE certification)
- Meets ISO 80601-2-55
- Designed and manufactured according to EN ISO 13485
- Accurate and reliable fast response
- Resistant to N<sub>2</sub>O
- Excellent signal stability
- High product quality
- Short delivery times
- Technical support
- Made in Germany
- FDA cleared



### From standard sensors to customized sensors

Experienced EnviteC engineers analyze customer requirements. This input is used for different standard and OEM applications, and ongoing support is provided right up to the final integrator in the solution. EnviteC designs customized sensors characterized by a maximum possible degree of precision, for example with different signal levels or temperature compensation elements.

### Intendend use

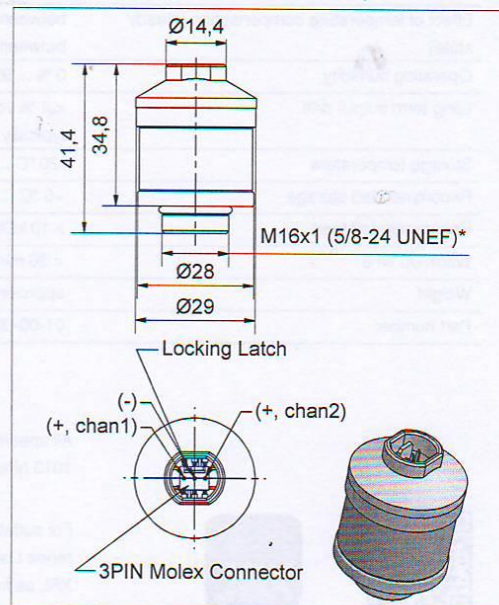
The EnviteC Medical Oxygen Sensors are intended as oxygen-sensing component of an oxygen analyzer that measures oxygen concentration in breathing gas mixtures in the following applications:

- Sensing device for oxygen in
  - control device of oxygen concentrators
  - medical ventilators
  - anaesthesia equipment
  - incubators.

The use is limited to system monitoring. The sensors are not suited for breath by breath analysis of breath gases. Please refer to the Instructions for Use! If the sensor is intended to replace the original oxygen-sensing component of an oxygen analyzer, consult the EnviteC XRL Cross Reference List for selecting the appropriate sensor.



### Mechanical drawing (All dimension in mm)



General tolerances ISO 2768-c

\*Intermediate thread: Metric / Unified Extra Fine

### Additional information

The Instructions for Use as well as the EnviteC XRL Cross Reference List are available under [www.EnviteC.com](http://www.EnviteC.com) and in the Apple App Store under EnviteC XRL as free download.

### For more information please contact us!

We look forward to assisting you either on the phone or in a personal talk.

## Technical Specifications OOM204

Measurement range	0 % ... 100 % oxygen (at atmospheric pressure)
Nominal sensor lifetime	≥ 500 000 % volume oxygen hours
Output in ambient air	9 mV ... 13.5 mV (each of two channels)
Output difference	1.25 mV (between the two channels)
Electrical interface	3 pin (Molex® 22-11-1031)
Accuracy	meets ISO 80601-2-55 requirements
Repeatability *	< 1 % volume O <sub>2</sub> at constant temperature and pressure
Linearity error	< 3 % relative
Response time	< 12 s to 90 % of final value
Zero offset voltage	< 200 µV in 100 % nitrogen, applied for 5 min
Cross interference	meets ISO 80601-2-55 requirements
Influence of humidity	-0.03 % rel. per % RH at 25 °C
Pressure range	0.6 bar ... 2 bar (ppO <sub>2</sub> 0 ... 1250 mbar O <sub>2</sub> )
Influence of pressure	proportional to change in oxygen partial pressure
Influence of mechanical shock	< 1 % relative after a fall from 1 m
Operating temperature	0 °C ... +50 °C
Temperature compensation	built-in NTC compensation
Effect of temperature compensation (steady state)	between +25 °C and +40 °C: 3 % relative error between 0 °C and +50 °C: 8 % relative error
Operating humidity	0 % ... 99 % RH non-condensing
Long term output drift	< 1 % volume oxygen per month typically < -15 % relative over lifetime
Storage temperature	-20 °C ... +50 °C
Recommended storage	+5 °C ... +15 °C
Recommended load	≥ 10 kOhms
Warm-up time	< 30 minutes, after replacement of sensor
Weight	approximately 28 grams
Part number	01-00-0097

All specifications are applicable at standard conditions:  
1013 hPa, 25 °C dry ambient air



For suitable accessories and sensors please refer to the EnviteC Cross Reference List under [www.EnviteC.com](http://www.EnviteC.com) and in the Apple App Store under EnviteC XRL as free download.

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