

MICROOPTODE-METER USER MANUAL



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UNISENSE A/S

TABLE OF CONTENTS

CONGRATULATIONS WITH YOUR NEW PRODUCT!.....	6
SUPPORT, ORDERING, AND CONTACT INFORMATION	6
WARRANTY AND LIABILITY.....	7
REPAIR OR ADJUSTMENT	7
OVERVIEW	8
GETTING STARTED	9
OPERATING ENVIRONMENT	9
SPECIFICATIONS	10

CONGRATULATIONS WITH YOUR NEW PRODUCT!

SUPPORT, ORDERING, AND CONTACT INFORMATION

If you wish to order additional products or if you encounter any problems and need scientific/technical assistance, please do not hesitate to contact our sales and support team. We will respond to your inquiry within one working day.

E-mail: sales@unisense.com

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Further documentation and support is available at our website
www.unisense.com.

WARRANTY AND LIABILITY

The MicroOptode Meter is covered by a one year warranty.

The warranty does not include repair or replacement necessitated by accident, neglect, misuse, unauthorized repair, or modification of the product.

In no event will Unisense be liable for any direct, indirect, consequential or incidental damages, including lost profits, or for any claim by any third party, arising out of the use, the results of use, or the inability to use this product.

REPAIR OR ADJUSTMENT

Equipment that is not covered by the warranty will, if possible, be repaired by Unisense with appropriate charges paid by the customer. In case of return of equipment please contact us for return authorization.

For further information please see the document General terms of sale and delivery of Unisense A/S as well as the manuals for the respective products. Repair or adjustment

OVERVIEW

The MicroOptode Meter is a compact and economical meter for Unisense MicroOptodes. Two oxygen MicroOptodes and a temperature sensor can be connected to the MicroOptode Meter enabling for automatic temperature compensated oxygen measurements. The MicroOptode Meter is USB-powered and is fully integrated into the Unisense software Suite, allowing you to combine the microoptode technology with our broad microsensors portfolio consisting of H_2S , NO , N_2O , H_2 , pH, Redox and more.



Front view of MicroOptode Meter

GETTING STARTED

1. Install the software
2. Connect the MicroOptode Meter to the USB port (USB 2.0) of the computer
3. Connect the microoptodes and the temperature sensor.
4. Start the software (consult the software manual for directions)
5. The microoptode signal(s) should now be visible on the computer screen and calibrations and measurements can be performed.
6. A red light will flash at the tip of the microoptode.

OPERATING ENVIRONMENT

The MicroOptode Meter is designed for laboratory use. Care must be taken to protect the amplifiers in humid, dusty, and corrosive environments (e.g. field conditions) since it may affect the performance, cause damage, or shorten lifetime. If the amplifier is used outdoors, it should be protected in a plastic bag or similar.

IMPORTANT: Please consult the separate MicroOptode manual for instructions about the microoptode and calibration of this.

SPECIFICATIONS

Sensor	MicroOptode and Unisense Temperature sensor
Channels	2-4 (+ 1 temperature)
POWER	
Power supply	USB
Measuring principle	Lifetime red excitation with near infrared detection
DATA AQUISION SOFTWARE	
SensorTrace Logger	Included
Other Unisense software	Optional: SensorTrace Suite
Data Rate	1 Hz
Software data output	CSV
PHYSICAL	
Dimensions (W x D x H)	113 x 125 x 50 mm
Weight	720
ENVIRONMENTAL	
Temperature range	-10 to +50°C (<90% non-condensing)



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