



Product Specification of:

Medical Oxygen Sensor

Type: M-15M

Part Number: 410823

Nuova ID: E-15/M

RoHS compliant and SVHC free

Meets the applicable requirements of ISO 80601-2-55

Comes with CE marking. further regulatory registrations available upon request

Produced under EN ISO 13485 Quality Management System

DOCUMENT PURPOSE

The purpose of this document is to present the performance specification and key features of the sensor.

This document should be used in conjunction with the Operating Manual of the instrument and the Product Safety Data Sheet of the sensor.

KEY FEATURES

Long-life galvanic gas sensor with high signal stability at low cross sensitivity to anesthesia gases combined with superior linearity over the entire measurement range.









High Signal Stability

Superior Linearity

Wide Measurement Range

Long Lifetime

This data sheet is subject to change without prior notice

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Type: M-15M

Part Number: 410823

Nuova-ID: E-15/M



at 100 Vol.%O₂ applied for 5 min

TECHNICAL SPECIFICATIONS

MEASURE	

Operating Principle:	Partial pressure electrochemical cell
Measurement Range:	0 100 Vol.%O ₂

Initial Output Signal: 8 ... 12 mV at dry ambient air

Output Signal Range: 5 ... 15 mV

Response Time t90: < 12 s

Signal Drift (long-term): $\leq \pm 1 \text{ Vol.}\%\text{O}_2/\text{month}$ at ambient air

Linearity Error: $\leq \pm 3\%$

Zero Signal Offset: $\leq 0.3 \text{ Vol.}\%O_2$ at 100 Vol. $\%N_2$ applied for 5 min

Repeatability Error: $\leq \pm 1 \text{ Vol.}\%O_2$ at 100 Vol. $\%O_2$ applied for 5 min

Influence of Gas Humidity: - 0.03 % of signal per %rH

Signale Temperature Compensation NTC on sensor PCB

Cross-Sensitivity: according DIN EN ISO 80601-2-55

ELECTRICAL

Electrical Connector 3.50 mm Mono Jack

Recommended Load Resistor: ≥ 10 kOhm

MECHANICAL

Weight: ≤ 28 g

Material in Contact with Media: PA, PPS, PTFE, Stainless Steel NBR

Gas Connector: fits for M16x1 DIN 13 or 5/8-24 UNEF

ENVIRONMENTAL

Operating Temperature Range: 10 ... 40 °C

Ambient Pressure Range: 700 ... 1250 hPa

Ambient Humidity Range: up to 100 %rH non-condensing

LIFETIME

Expected Operating Life: 3 years at ambient air, depending on application

Nominal Sensor Life: 750 000 Vol.%h O₂ at ambient air, depending on application

Important Note: All characteristics are based on conditions at 25 °C, 50 %rH, 1013 hPa and a gas flow of > 2.5 L_s/min. For sensor performance data under other conditions, contact ITG.

This data sheet is subject to change without prior notice

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Type: M-15M

Part Number: 410823

Nuova-ID: E-15/M



STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE

Ambient Temperature Range: 15 ... 25 °C recommended

 $-20 \dots 50 \,^{\circ}$ C maximum (≤ 10 h)

Ambient Pressure Range: 700 ... 1250 hPa

Ambient Humidity Range: 50 ... 100 %rH recommended non-condensing

0 ... 30 %rH maximum one week

RELATED PRODUCTS

Product	Part Number	Other Specifics
O ₂ Sensor M-15	41 00 23	_
O ₂ Sensor M-15T	47 00 28	translucent housing
O ₂ Sensor M-15M	41 08 23	_

Cleaning and Disinfection

The sensor outer housing can be cleaned with a dry wipe. Do not wipe the sensor's gas entrance side. Do not use any chemical disinfectant or sanitizer on the sensor.

Poisoning

ITG sensors are designed to operate in a wide range of environments. For optimal sensor lifetime and performance it is important that exposure to high concentrations of solvent vapors is avoided during storage, installation into instruments and operation of the sensor. Do not use adhesives directly on or near the sensor as the solvents may cause stress corrosion on the plastic parts.

Intended Use

The electrochemical oxygen sensors for use in medical technology are used as accessories with a limited shelf life exclusively in conjunction with other medical products (ventilators, incubators, anesthesia machines, portable oxygen monitors, oxygen therapy devices and gas mixing units) so that they can fulfill the manufacturer's intended purpose.

The oxygen sensors measure the oxygen partial pressure in gas mixtures.

Commissioning and use is carried out exclusively by expert clinic or service personnel. Direct contact with these items occurs during installation or maintenance by trained personnel.

Stabilisation Time

When installing a new sensor refer to the instrument manual for stabilization time before calibration.

If not specified otherwise wait at least 15 minutes to ensure the sensor has stabilized in the instrument.

Calibration Interval

ITG sensors are designed to have minimal signal drift over their functional lifetime. For optimal performance and maximum measurement accuracy however they should be calibrated before each use.

This data sheet is subject to change without prior notice

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Type: M-15M

Part Number: 410823

Nuova-ID: E-15/M



If the Sensor is dropped

If a sensor is dropped, please check for visible mechanical damage of the sensor or if the sensor is leaking electrolyte. If this is the case, do not try to install the sensor into the device. Take safety precautions and immediately dispose the cell.

If the sensor shows no visible damage it should be placed in quarantine for at least 24 hours. Afterwards a follow-up check made by a two point calibration should be done.

Installation in Device

A gas tight sealing is ensured when the sensor is screwed in hand-tight. Don't use any mechanical tools to install the sensor.

Using excessive force may damage the sensor.

Optimal mounting position of the sensor is when the gas sensing area faces downwards. A horizontal position is acceptable. It is not recommended to use the sensor with the gas sensing area facing upward.

Connection should be made via recommended electrical and mechanical connectors only. The specified load resistance must be taken into account. Soldering the sensor will damage it and void the warranty. Please contact ITG for further information.

Since temperature has an influence on the output signal it is not advisable to place any heat or vibration sources (i.e. electric- pumps or valves, coolers, etc.) in close proximity to the cell.

Avoid proximity of the cell to any EMC radiating units as those emit frequencies which might interfere with the sensor's electrical connection and connecting cable.

RFI/EMI Susceptibility

ITG sensors contain metal parts and might be susceptible to RFI or EMI. Before use in MRI environments please contact ITG for further information.

Disposal

At the end of the sensors lifetime the sensor should not be disposed of in normal public waste as it may contain hazardous materials and caustic electrolyte (for more information refer to the PSDS). Please contact your local authorities for environmental legislation to relevant local waste disposal.

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Type: M-15M

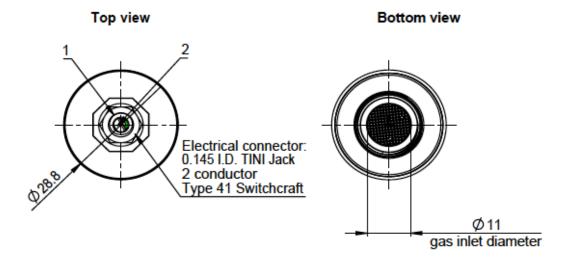
Part Number: 410823

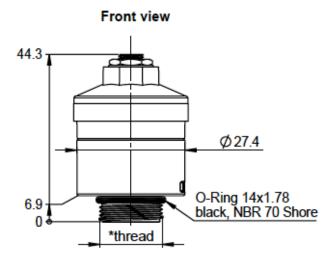
Nuova-ID: E-15/M



TECHNICAL DRWAING

Sensor	ITG	Color			Electrical pin	assignment
5611361	Part number	Cap Housing		Threaded ring	Pin 1	Pin 2
M-15M	410823	white	white	white	plus (+)	minus (-)





^{*} thread is compatible with M16x1 and 5/8-24 UNEF

Dimension unit: mm Dimension tolerances: linear $\pm 0.5~\text{mm}$, diameter $\pm 0.3~\text{mm}$

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Product Specification of:

Medical Oxygen Sensor

Type: M-07s

Part Number: 410109

Nuova ID: E-77/0S

RoHS compliant and SVHC free

Meets the applicable requirements of ISO 80601-2-55

Comes with CE marking. further regulatory registrations available upon request

Produced under EN ISO 13485 Quality Management System

DOCUMENT PURPOSE

The purpose of this document is to present the performance specification and key features of the sensor.

This document should be used in conjunction with the Operating Manual of the instrument and the Product Safety Data Sheet of the sensor.

KEY FEATURES

Long-life galvanic gas sensor with high signal stability at low cross sensitivity to anesthesia gases combined with superior linearity over the entire measurement range.







Superior Linearity



Wide Measurement Range



Separate Temperature Compensation Network

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Type: M-07s

Part Number: 410109

Nuova-ID: E-77/0S



TECHNICAL SPECIFICATIONS

MEASUREMENT

Operating Principle:	Partial pressure electrochemical cell	
Measurement Range:	0 100 Vol.%O ₂	
Initial Output Signal:	7.5 13.0 mV	at dry ambient air
Response Time t90:	< 12 s	
Signal Drift (long-term):	≤ ± 1	at ambient air
Linearity Error:	≤±3	at 100 Vol.%O ₂ applied for 5 min
Zero Signal Offset:	≤ 0.3 Vol.%O ₂	at 100 Vol.%N ₂ applied for 5 min
Repeatability Error:	≤ ± 1 Vol.%O ₂	at 100 Vol.%O ₂ applied for 5 min
Influence of Gas Humidity:	- 0.03 % of signal per %rH	
Signale Temperature Compensation	NTC on sensor PCB	
Cross-Sensitivity:	fullfills DIN EN ISO 80601-2-55	
ELECTRICAL		
Electrical Connector	4P4C Handset Modular Jack 4 Position (RJ11), Type AMP	
Recommended Load Resistor:	≥ 10 kOhm	
MECHANICAL		
Weight:	≤ 28 g	
Material in Contact with Media:	PA, PPS, PTFE, Stainless Steel NBR	

ENVIRONMENTAL

Operating Temperature Range:	10 40 °C	
Ambient Pressure Range:	700 1250 hPa	
Ambient Humidity Range:	up to 100 %rH	non-condensing

LIFETIME

Expected Operating Life:	3 years	at ambient air, depending on application
Nominal Sensor Life:	500 000 Vol.%h O ₂	at ambient air, depending on application

Important Note: All characteristics are based on conditions at 25 °C, 50 %rH, 1013 hPa and a gas flow of > 2.5 L_s/min. For sensor performance data under other conditions, contact ITG.

This data sheet is subject to change without prior notice

Specification_M-07S_Rev_2

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Type: M-07s

Part Number: 410109

Nuova-ID: E-77/0S



STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE

Ambient Temperature Range: 15 ... 25 °C recommended

-20 ... 50 °C maximum (≤ 10 h)

Ambient Pressure Range: 700 ... 1250 hPa

Ambient Humidity Range: 50 ... 100 %rH recommended non-condensing

0 ... 30 %rH maximum one week

RELATED PRODUCTS

Product	Part Number	Other Specifics
O ₂ Sensor M-07	41 00 09	-
O ₂ Sensor M-07T	47 00 12	translucent housing
O ₂ Sensor M-07S	41 01 09	different pln assignment
O ₂ Sensor M-07ST	41 02 09	translucent housing, different pln assignment

Cleaning and Disinfection

The sensor outer housing can be cleaned with a dry wipe. Do not wipe the sensor's gas entrance side. Do not use any chemical disinfectant or sanitizer on the sensor.

Poisoning

ITG sensors are designed to operate in a wide range of environments. For optimal sensor lifetime and performance it is important that exposure to high concentrations of solvent vapors is avoided during storage, installation into instruments and operation of the sensor. Do not use adhesives directly on or near the sensor as the solvents may cause stress corrosion on the plastic parts.

Intended Use

The electrochemical oxygen sensors for use in medical technology are used as accessories with a limited shelf life exclusively in conjunction with other medical products (ventilators, incubators, anesthesia machines, portable oxygen monitors, oxygen therapy devices and gas mixing units) so that they can fulfill the manufacturer's intended purpose.

The oxygen sensors measure the oxygen partial pressure in gas mixtures.

Commissioning and use is carried out exclusively by expert clinic or service personnel. Direct contact with these items occurs during installation or maintenance by trained personnel.

Stabilisation Time

When installing a new sensor refer to the instrument manual for stabilization time before calibration.

If not specified otherwise wait at least 15 minutes to ensure the sensor has stabilized in the instrument.

Calibration Interval

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Type: M-07s

Part Number: 410109

Nuova-ID: E-77/0S



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Using excessive force may damage the sensor.

Optimal mounting position of the sensor is when the gas sensing area faces downwards. A horizontal position is acceptable. It is not recommended to use the sensor with the gas sensing area facing upward.

Connection should be made via recommended electrical and mechanical connectors only. The specified load resistance must be taken into account. Soldering the sensor will damage it and void the warranty. Please contact ITG for further information.

Since temperature has an influence on the output signal it is not advisable to place any heat or vibration sources (i.e. electric- pumps or valves, coolers, etc.) in close proximity to the cell.

Avoid proximity of the cell to any EMC radiating units as those emit frequencies which might interfere with the sensor's electrical connection and connecting cable.

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ITG sensors contain metal parts and might be susceptible to RFI or EMI. Before use in MRI environments please contact ITG for further information.

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Type: M-07s

Part Number: 410109

Nuova-ID: E-77/0S



TECHNICAL DRWAING

Sancar	ITG	Color			Elec	trical pi	n assignme	nt
Sensor Part number		Сар	Housing	Threaded ring	Pin 1	Pin 2	Pin 3	Pin 4
M-07S	410109	white	white	white	linked with Pin 3	plus (+)	linked with Pin 1	minus (-)

4P4C Modular Jack

Type AMP

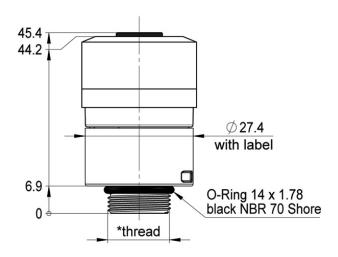
1 2 3 4 Electrical connector:

Bottom view



Front view

Top view



Dimension unit: mm Dimension tolerances: linear ± 0.5 mm , diameter ± 0.3 mm

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DEKRA Certification GmbH - Handwerkstraße 15 - D-70565 Stuttgart

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Phone +49.711.7861-2566 Fax +49.711.7861-2615

Date 2024-09-27

Subject: Notified Body Confirmation Letter

Our reference: 50403-CoL-01 Rev. 0

Confirmation of the status of a formal application, written agreement, and appropriate surveillance in the framework of Regulation (EU) 2023/607 amending Regulations (EU) 2017/745 as regards the transitional provisions for certain medical devices and in vitro diagnostic medical devices

Dear Mr. Gambert

This letter confirms that, DEKRA Certification GmbH, a Notified Body (NB) designated against Regulation (EU) 2017/745 (MDR) and identified by the number 0124 on NANDO, has received a formal application in accordance with Section 4.3, first subparagraph of Annex VII of MDR and has signed a written agreement in accordance with Section 4.3, second subparagraph of Annex VII of MDR with the following manufacturer:

IT Dr. Gambert GmbH Hinter dem Chor 21 23966 Wismar Deutschland

SRN Number: DE-MF-000004930

The devices covered by the formal application and the written agreement mentioned above are identified in the Tables 1 and 2 below. Table 1 identifies the devices for which an MDR application has been received, written agreement concluded and for which the NB is also responsible for appropriate surveillance of the corresponding devices under the applicable Directive MDD. Table 2 identifies the devices for which an MDR application has been received and a written agreement concluded, but the NB has <u>not</u> yet taken the responsibility for appropriate surveillance of the corresponding devices under the applicable Directive MDD.

In the case of devices covered by certificates issued under Directive 93/42/EEC (MDD) that expired after 26 May 2021 and before 20 March 2023, without having been withdrawn, this letter also confirms that the manufacturer signed the written agreement under MDR by the

DEKRA Certification GmbH Handwerkstraße 15 D-70565 Stuttgart www.dekra-certification.de/ medizinprodukte Registered at the local court of Stuttgart under HRB Nr. 17662
Bank: Commerzbank AG
IBAN: DE76 6008 0000 0001 4040 00

IBAN: DE76 6008 0000 0901 4949 00 BIC: DRES DE FF 600 Managing director: Dr. Rolf Krökel



date of MDD certificate expiry; or provided evidence that a competent authority of a Member State had granted a derogation or exemption from the applicable conformity assessment procedure in accordance with Article 59(1) of MDR or Article 97(1) of the MDR respectively, by the 20 Mar 2023 for the relevant devices.

The transition timelines that apply to the devices covered by this letter, subject to the manufacturer's continued compliance to the other conditions specified in Article 120.3c of MDR (as amended by (EU) 2023/607), are shown below:

- 26 May 2026 for Class III custom-made implantable devices
- 31 December 2027 for Class III devices and Class IIb implantable devices excluding Well-established technologies (WET sutures, staples, dental fillings, dental braces, tooth crowns, screws, wedges, plates, wires, pins, clips and connectors)
- 31 December 2028 for other Class IIb devices, Class IIa, Class I devices placed on the market in sterile condition or have a measuring function
- 31 December 2028 for devices not requiring the involvement of a notified body under MDD but requiring it under MDR (e.g., class I devices that qualify as re-usable surgical instruments)

Validity of this confirmation letter:

For products included in table 1

Until the end of applicable transition timelines specified in Article 120.3c of MDR (as amended by (EU) 2023/607)

On behalf of the Notified Body,

Digital unterschrieben von Markus

RAINER Kopf Datum: 2024-09-27 13:53:33+02:00

Markus Kopf 2024/09/27

Enclosures:

Confirmation Letter Annex



Annex to Notified Body Confirmation Letter 50403-CoL-01 Rev. 0

Table 1:

Device name or Basic UDI-DI (under MDR application)	MDR Device classification (as proposed by the manufacturer and verified at the pre- application stage)	If the MDR device is a substitute device, identification of the corresponding MDD/AIMDD device	MDD/AIMDD Certificate Reference(s) of the devices under MDR application, and the NB Identification
Medical oxygen sensor M-01	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-01L2	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-01T	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-01TL2	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-02	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-02L2	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-02T	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-02TL2	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-03	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-03HDM	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-03T	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-04	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-04T	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-04C	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-04CT	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-07	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-07T	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor M-07S	Class IIa	N/A	Certificate 50403-16-07



Device name or Basic UDI-DI (under MDR application) Medical oxygen sensor M-07ST Medical oxygen sensor M-07ST Medical oxygen sensor M-07ST Medical oxygen sensor M-08I Medical oxygen sensor M-12 Medical oxygen sensor M-14 Medical oxygen sensor M-15 Medical oxygen sensor M-16 Medical oxygen		MDP Davisa		
Device name or Basic UD-Del (under MDR application) Medical oxygen sensor Medical oxyge		MDR Device	If the MDR device is a	MDD/AIMDD Certificate
Medical oxygen sensor Medical oxygen senso	Device name or Basic		substitute device.	Reference(s) of the
manufacturer and verified at the pre- application, stage) Medical oxygen sensor M-07ST Medical oxygen sensor M-07ST Medical oxygen sensor M-08 Medical oxygen sensor M-09 Medical oxygen sensor M-10 Medical oxygen sensor M-10 Medical oxygen sensor M-10 Medical oxygen sensor M-11 Medical oxygen sensor M-12 Class IIa N/A Certificate M-07 Medical oxygen sensor M-12 Class IIa N/A Certificate M-07 Medical oxygen sensor M-12 Class IIa N/A Certificate M-07 Medical oxygen sensor M-12 Class IIa N/A Certificate M-12 Medical oxygen sensor M-12 Class IIa N/A Certificate M-12 Medical oxygen sensor M-12 Class IIa N/A Certificate M-12 Medical oxygen sensor M-12 Class IIa N/A Certificate M-12 Medical oxygen sensor M-14 Medical oxygen sensor M-15 Medical oxygen sensor M-15 Medical oxygen sensor M-15 Medical oxygen sensor M-16 Medical o				
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Medical oxygen sensor Medi	аррисаціон)	verified at the pre-		
M-07ST		application stage)	MDD/AIMDD device	Identification
M-07ST	Medical oxygen sensor	Class IIa	N/A	Certificate
M-08 Medical oxygen sensor Class IIa N/A Certificate S0403-16-07		Glado na	1071	
Medical oxygen sensor Moderal	Medical oxygen sensor	Class IIa	N/A	Certificate
M-08T				
Medical oxygen sensor Medi		Class IIa	N/A	
M-09		Class IIa	N/A	
M-09T				
Medical xygen sensor Class IIa N/A Certificate S0403-16-07		Class IIa	N/A	
M-10		Ola a a Ha	NI/A	
Medical oxygen sensor Class IIa N/A South So		Ciass lia	IN/A	
M-11		Class IIa	N/A	
M-12	M-11			
Medical oxygen sensor M-12A		Class IIa	N/A	
M-12A S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-12T S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-14T Medical oxygen sensor M-14T S0403-16-07 Medical oxygen sensor M-14ST Medical oxygen sensor Class IIa N/A Certificate M-15ST Class IIa N/A Certificate M-15M S0403-16-07 Medical oxygen sensor M-15M M-15M Class IIa N/A Certificate M-15M S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-15M N/A Certificate S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-15M N/A Certificate S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-16T N/A Certificate S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-18TT Medic		Close IIe	NI/A	
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M-12T 50403-16-07 Medical oxygen sensor Class IIa N/A Certificate Medical oxygen sensor Class IIa N/A Certificate M-14T S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-14ST S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-15T Medical oxygen sensor Class IIa N/A Certificate M-15T Medical oxygen sensor Class IIa N/A Certificate M-15M S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-16M N/A Certificate S0403-16-07 Medical oxygen sensor Class IIa N/A Certificate M-16HT Medical oxygen sensor Class IIa N/A Certificate M-16HTT Medical oxygen sensor Class IIa N/A Certificate M-18TT Medical oxygen sensor Class IIa N/A Certificate M-18CT Medical oxygen sensor Class IIa <td< td=""><td></td><td>Class IIa</td><td>N/A</td><td></td></td<>		Class IIa	N/A	
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Medical oxygen sensor Class IIa N/A Certificate 50403-16-07 Medical oxygen sensor Class IIa N/A Certificate 50403-16-07 </td <td></td> <td>Class IIa</td> <td>N/A</td> <td></td>		Class IIa	N/A	
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M-43T 50403-16-07 Medical oxygen sensor Class IIa N/A Certificate 50403-16-07 Medical oxygen sensor Class IIa N/A Certificate		Class IIa	N/A	
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Medical oxygen sensor Class IIa N/A Certificate		Class IIa	N/A	
		Class IIa	N/A	
		Sidoo iid	14/1	50403-16-07



	MDR Device	If the MDR device is a	MDD/AIMDD Certificate
Device name or Basic	classification (as	substitute device,	Reference(s) of the
	proposed by the		
UDI-DI (under MDR	manufacturer and	identification of the	devices under MDR
application)	verified at the pre-	corresponding	application, and the NB
		MDD/AIMDD device	Identification
	application stage)		
Medical oxygen sensor M-45	Class IIa	N/A	Certificate 50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
M-47			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
M-48		N/4	50403-16-07
Medical oxygen sensor M-80	Class IIa	N/A	Certificate
Medical oxygen sensor	Class IIa	N/A	50403-16-07 Certificate
MLF-03	Class IIa	IV/A	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-04	Oldoo IId	1471	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-11K			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-12A			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-15	Class IIa	N/A	50403-16-07
Medical oxygen sensor MLF-15M	Class lia	IN/A	Certificate 50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-16	Olass IIa	IV/A	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-16D			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-16DD			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-16DE		N/4	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-16H Medical oxygen sensor	Class IIa	N/A	50403-16-07 Certificate
MLF-16HL	Class IIa	IV/A	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-17			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-19			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-19GE		1	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-42HL Medical oxygen sensor	Class IIa	N/A	50403-16-07 Certificate
MLF-43	Olass IIa	13/7	50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-44			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-60 HC			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-80			50403-16-07
Medical oxygen sensor	Class IIa	N/A	Certificate
MLF-80HL			50403-16-07

Agreement about the Extension of certificates according to MDD 93/42/EEC issued by DEKRA Certification GmbH for continuation of MDD 93/42/EEC surveillance activities, in reference to Regulation (EU) 2023/607 of the European Parliament and of the Council of 15 March 2023 amending Regulation (EU) 2017/745 as regards the transitional provision for certain medical devices

hereinafter "Extension Agreement"

Parties:

DEKRA Certification GmbH, having its seat in Stuttgart, Germany, hereinafter to be referred to as "DEKRA"

and

IT Dr. Gambert GmbH having its seat in Wismar, Germany, hereinafter to be referred to as Manufacturer.

Introduction:

Regulation (EU) 2023/607 of the European Parliament and of the Council of 15 March 2023 amending Regulation (EU) 2017/745 as regards the transitional provision for certain medical devices has been published on 20 March 2023 and came into force on the same day.

This Regulation (EU) 2023/607 has amended Regulation (EU) 2017/745 (from here referred to as MDR 2017/745) to now identify that under certain conditions certificates issued by notified bodies in accordance with Directive 93/42/EEC that were still valid on 26 May 2021 and that have not been withdrawn afterwards shall remain valid after the end of the period indicated on the certificate under certain conditions. Additionally, should the manufacturer intend to make use of the extension of the validity of the certificates, involvement of a notified body for continued surveillance is required.

This agreement identifies the devices and certificates for which the required conditions are met and that the manufacturer intends to make use of the options for extension of the validity of the certificates. The agreement also identifies the conditions under which DEKRA will be the notified body responsible for continued surveillance. In order for DEKRA to continue these surveillance activities the Certification Agreement in place with the manufacturer will be extended, as detailed further below.

Agreement:

Manufacturer has identified the intention to make use of the options for extension of the validity of the certificates as detailed in the amendment of the MDR 2017/745 by Regulation (EU) 2023/607.

Evidence has been provided by Manufacturer that they meet the following condition(s) for the certificates issued by DEKRA in accordance with Directive 93/42/EEC to remain valid:

- Manufacturer holds certificates issued by DEKRA in accordance with Directive 93/42/EEC that were still valid on 26 May 2021 and that have not been withdrawn afterwards and were not expired on 20 March 2023. The certificates, if expired, can be considered to be valid, provided that the following conditions are met by the dates indicated:
 - (a) Manufacturer has already lodged a formal application with DEKRA in accordance with MDR 2017/745 Section 4.3, first subparagraph, of Annex VII for conformity assessment in respect of the device or in respect of the device intended to substitute that device.
 - (b) For the conditions to be met for the certificate to remain valid DEKRA to which the formal application has been made and Manufacturer must have signed a written agreement in accordance with MDR 2017/745 Section 4.3, second subparagraph, of Annex VII, by no later than 26 September 2024. Should this agreement not be signed by 26 September 2024 the certificate cannot be considered valid.

Based on evidence provided by Manufacturer it has been determined that the certificates according to MDD 93/42/EEC issued by DEKRA Certification GmbH for the devices indicated in annex 1 meet the requirements to remain valid:

By signing this agreement Manufacturer also confirms that the following additional requirements of MDR 2017/745 Article 120 3c, as amended by Regulation (EU) 2023/607, are met, and will continue to be met, for all products listed above which will continue to be placed on the market:

- those devices continue to comply with Directive 93/42/EEC, as applicable;
- there are no significant changes in the design and intended purpose;
- the devices do not present an unacceptable risk to the health or safety of patients, users or other persons, or to other aspects of the protection of public health;

Following from the above information from Manufacturer DEKRA agrees to be the notified body responsible for the continued appropriate surveillance in accordance with applicable requirements, and in the respect of the applicable devices identified above, as stipulated in MDR 2017/745 Article 120 3e, as amended by Regulation (EU) 2023/607, DEKRA. This appropriate surveillance shall include at least:

 Surveillance audits in accordance with Directive 93/42/EEC (as applicable), considering also MDR 2017/745 requirements for post market surveillance, vigilance, registration of

economic operators and of devices as required by MDR 2017/745 Article 120. This can also include unannounced audits.

- Assessment of reportable changes
- Assessment of reportable adverse events (vigilance) for impact on certification status

For the specific devices given above for which the certificate can still be considered valid, the certificate validity date and dates until when the products may be placed on the market or put into service are as follows.

Type of Device	Date until which certificate can
	still be considered valid
Class III	31 December 2027
Class IIb implantable devices excluding well-established	
technologies (sutures, staples, dental fillings, dental braces,	
tooth crowns, screws, wedges, plates, wires, pins, clips and	
connectors)	
Class IIb devices	31 December 2028
Class IIb implantable devices which are well-established	
technologies (sutures, staples, dental fillings, dental braces,	
tooth crowns, screws, wedges, plates, wires, pins, clips and	
connectors)	
Class IIa devices	
Class I sterile devices	
Class I devices with a measuring function	

The table above thus also defines the dates until which DEKRA is responsible for the appropriate surveillance, unless one of the following situations applies:

- Manufacturer provides a Notification of Change to inform DEKRA that devices will no longer be placed on the market or put into service and the certificate should no longer be considered to be valid
- DEKRA is not the notified body with which the written agreement has been signed for conformity assessment of the device or substitute device in accordance with MDR 2017/745. In this case the notified body with which the written agreement has been signed for conformity assessment of the device or substitute device must take responsibility for surveillance of the device which has a certificate that was issued in accordance with Directive 93/42/EEC. This should be no later than 26 September 2024 as detailed in MDR 2017/745 Article 120 3e, as amended by Regulation (EU) 2023/607. Thus DEKRA's responsibility for surveillance will end on 26 September 2024 in this case, or before if a Notification of Change is provided to confirm that the surveillance activities are now carried out by another Notified Body.

Finally, by signing this agreement DEKRA and Manufacturer agree that the products covered by the Directive 93/42/EEC certificates listed in annex 1 will thus continue to remain valid until the dates as stipulated above, in order for DEKRA to meet the required surveillance responsibilities.

This Extension Agreement is based on the General Terms and Conditions, the General Certification Conditions and the Specific Certification Conditions (MDR/IVDR) of DEKRA Certification GmbH. The following hierarchy applies: Specific Certification Conditions (1); General Certification Conditions (2); General Terms and Conditions (3). The provisions in this agreement take precedence over the General Terms and Conditions and the General and Specific Certification Conditions.

Should you agree with the above please confirm this through a signature below.

We look forward to our successful cooperation.

DEKRA Certification GmbH

Digitally signed by Markus RAINER Kopf Date: 2024-06-18 16:06:22+02:00

Stuttgart, 2024-06-18

Client

Hinter dem Chor 21 23966 Wismar Germany

IT Dr. Gambert GmbH

Name of the company submitting the application

Λ.

Title, first name, last name of the client

Place and Date (YYYY-MM-DD)

Address of the company submitting the application

IT Dr. Gambert GmbH Hinter dem Choy 21 23966 Wismar, Germany Phone: +49-(0)-3841-22 00 50 Fax: +49-(0)-3841-22 90 546

legally binding signature of the client

Annex 1 The following products are covered by this extension agreement

	MDR Device classification		MDD/AIMDD Certificate
Device name or Basic UDI-DI (under MDR	(as proposed by the manufacturer and verified	substitute device, identification of the	Reference(s) of the devices under MDR
		corresponding MDD/AIMDD	
application)	at the pre-application stage)	device	application, and the NB Identification
oxygen sensors M-02	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-02L2	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-02T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-02TL2	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-01	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-01L2	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-01T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-01TL2	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-03	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-03HDM	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-03T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-04	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-04T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-04C	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-04CT	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-07	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-07T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-07S	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-07ST	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-08	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-08T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-09	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-09T	Class IIa	N/A	Certificate 50403-16-07

oxygen sensors M-10	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-11	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-12	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-12A	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-12T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-14	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-14T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-14ST	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-15	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-15T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-15M	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-16	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-16T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-16HT	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-16HTT	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-18T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-18CT	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-25	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-25T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-43	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-43T	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-43GE	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-44	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-45	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-47	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-48	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors M-80	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-03	Class IIa	N/A	Certificate 50403-16-07

oxygen sensors MLF-04	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-11K	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-12A	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-15	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-15M	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-16	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-16D	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-16DD	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-16DE	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-16H	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-16HL	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-17	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-19	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-19GE	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-42HL	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-43	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-44	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-60 HC	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-80	Class IIa	N/A	Certificate 50403-16-07
oxygen sensors MLF-80HL	Class IIa	N/A	Certificate 50403-16-07

CERTIFICATE



EN ISO 13485:2016 + AC:2018 + A11:2021

DEKRA Certification GmbH hereby certifies that the organization

IT Dr. Gambert GmbH

Scope of certification:

Design and development, manufacture and distribution of electro-chemical gas sensors for medical equipment

Certified location:

Hinter dem Chor 21, 23966 Wismar, Germany

has established and maintains a quality management system according to the above mentioned standard. The conformity was adduced with audit report no. 50403-Z8-00.

Certificate registration no.: 50403-21-01 EN Certificate valid from: 2024-08-05 Validity of previous certificate: 2024-05-23 Certificate valid to: 2027-05-23



DEKRA Certification GmbH, Stuttgart, 2024-08-05

