



Ventilator Accessories

CATALOGUE

2021.09

www.mindray.com

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Finding the Right Part

This catalog has been designed to make finding the right part easy. Chapters are organized by specific accessory categories. Simply locate the type of part you are looking for under the appropriate category.

Note:

This catalog is not an Operating Instructions Manual. This catalog will assist you in identifying the correct parts and accessories to connect to your Mindray ventilator, please refer to the Operating Instructions Manual. Warnings, Precautions and Notes can also be found in the Operating Instructions.

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**Please refer to NB350 accessories catalogue for accessory of NB350.*

Humidifier & accessory

JIKE humidifier SH530 (Adult)

Apply to: SynoVent E3, SynoVent E5, SV300, SV300 Pro, SV600, SV800

Picture	Sub part	Part No.	Description
	Including:	115-018056-00	(EU, 230V)
	Humidifier SH530	115-018057-00	(India)
	Reusable water chamber	115-018060-00	(UK, 230V)
	Disposable heating wire package	115-018058-00	(US, 110V)
		115-018061-00	(US, 220V)

JIKE humidifier SH530 (Infant)

Apply to: SynoVent E3, SynoVent E5, SV300, SV300 Pro, SV600, SV800

Picture	Sub part	Part No.	Description
	Including:	115-028494-00	(EU, 230V)
	Humidifier SH530	115-028496-00	(India)
	Reusable water chamber	115-028498-00	(UK, 230V)
	Disposable heating wire package	115-028500-00	(US, 110V)
		115-028502-00	(US, 220V)

JIKE humidifier SH330

Apply to: SynoVent E3, SynoVent E5, SV300, SV300 Pro, SV600, SV800

Picture	Sub part	Part No.	Description
	Including:	115-018049-00	(EU, 230V)
	Humidifier SH330	115-018050-00	(India)
	Reusable water chamber	115-018053-00	(UK, 230V)
		115-018051-00	(US, 110V)
		115-018054-00	(US, 220V)

Picture	Description	Part No.	Apply to
	Resuable water chamber (Adult) - F&P MR370	040-000710-00	SynoVent E3 SynoVent E5 SV300 SV300 Pro SV600 SV800
	Resuable water chamber (Infant) - F&P MR340E	040-000709-00	SynoVent E3 SynoVent E5 SV300 SV300 Pro SV600 SV800
	Reusable water chamber for JK530 (Adult)	040-001530-00	SynoVent E3 SynoVent E5 SV300 SV300 Pro SV600 SV800
	Reusable water chamber for JK530 (Infant)	040-002174-00	SynoVent E3 SynoVent E5 SV300 SV300 Pro SV600 SV800

Picture	Description	Part No.	Apply to
A small, cylindrical oxygen sensor with a white body and a black tip, labeled 'MOX-3'.	Oxygen sensor (MOX-3)	040-001275-00	SV300 SV300 Pro SV600 SV800
A white plastic adapter with a central port and a black base.	Low pressure transfer adapter (LPO)	082-001920-00	SV300 SV300 Pro
A rectangular, silver-colored battery with a black label and a red terminal.	One more battery	115-034132-00	SV600 SV800
A rectangular, silver-colored battery with a black label and a red terminal.	One more battery	115-025022-00	SV300 SV300 Pro

Picture	Description	Part No.	Apply to
A rectangular, white HEPA filter with a black frame.	HEPA filter	115-024794-00	SV300 Pro SV300 SV600 SV800
A white, adult-sized test lung with a black base and a white top.	Test lung (Adult)	040-000744-00	SynoVent E3 SynoVent E5 V300 Pro SV300 SV600 SV800
A white, infant-sized test lung with a black base and a white top.	Test lung (Infant)	040-000745-00	SynoVent E5 SV300 Pro SV300 SV600 SV800

MOX3 GAS SENSOR

002771

Issue 8

MediceL® Oxygen (O₂) Gas Sensor



Oxygen (O₂) Gas Sensor:

MOX3

Part Number: AA829-M10

DESCRIPTION

Honeywell MediceL® (MOX) Sensors include oxygen and a range of other gases that are designed specifically for use in respiratory and anesthesia applications.

DOCUMENT PURPOSE

The purpose of this document is to present the performance specification of the MOX3 oxygen gas sensor.

This document should be used in conjunction with the Operating Principles (OP04) and the Product Safety Datasheet (PSDS 4).

The data provided in this document are valid at 20°C, 50 %RH and 1013 mBar for three months from the date of sensor manufacture.

Output signal can drift below the lower limit over time. For guidance on the safe use of the sensor, please refer to the instructions for use.

APPLICATIONS

- Critical care anesthesia

PORTFOLIO

The MOX MediceL® sensor family is part of the extensive line of Honeywell gas sensors. To learn more about the product, or the many other gas sensors in this series, [click here](#).

FEATURES AND BENEFITS



Meets the accuracy requirements of ISO 80601-2-55



Linear output from 0 % to 100 % Oxygen



13-month warranty



RoHS compliant

MEDICEL® GAS SENSORS

MOX3 SERIES

TABLE 1. TECHNICAL SPECIFICATIONS

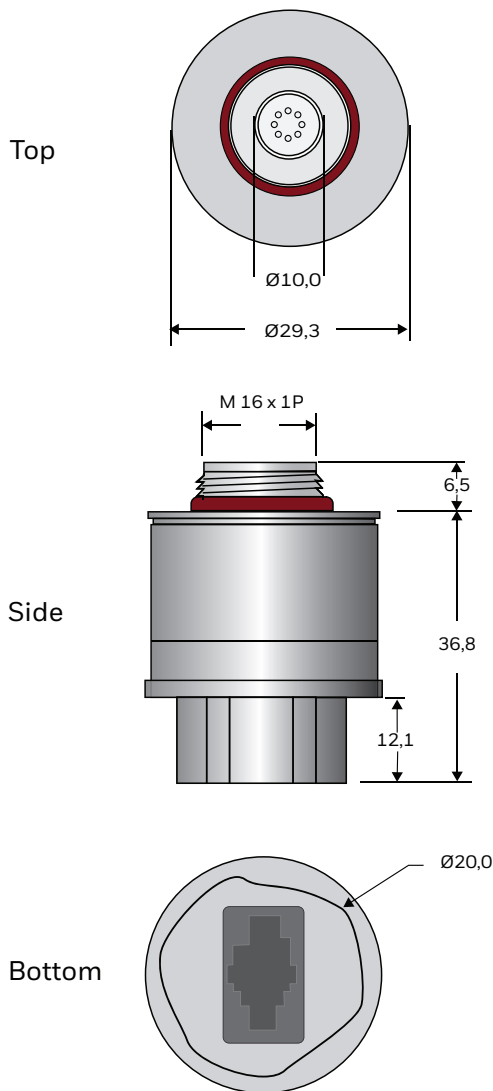
MEASUREMENT	
Operating Principle	Partial Pressure Electrochemical
Output	9 mV to 13 mV in 210 mBar O ₂
Measurement Range	0 mBar to 1500 mBar O ₂
T90 Response Time*	< 15 s (air to 100 % O ₂)
Baseline Offset*	< 200 µV
Linearity	Linear 0 % to 100 % O ₂ (See Note 1)
ELECTRICAL	
Temperature Compensation	< 2 % O ₂ equivalent (0°C to 40°C)
External Load Resistor	10 kOhm minimum (See Important Note)
Connector	UK Data Socket AMP (P/N 5520257-2)
MECHANICAL	
Weight	42 g (nominal)
Housing Material	White ABS
Orientation	Any
ENVIRONMENTAL	
Operating Temperature Range	-20°C to 50°C
Operating Pressure Range	0.5 Bar to 2.0 Bar
Operating Humidity Range	0 %RH to 99 %RH non-condensing
LIFETIME	
Long-Term Output Drift in 100 % O₂	< 5 % signal loss/year
Recommended Storage Temperature	-10°C to 40°C (Short excursions to 50°C allowed)
Expected Operating Life	20°C: 1.5 x 10 ⁶ % O ₂ hours 40°C: 0.8 x 10 ⁶ % O ₂ hours
Packaging	Sealed blister
Standard Warranty	13 months from date of despatch (This amounts to a variation of condition 1 of our standard terms and conditions which otherwise apply)

*Specifications are based on measurements made with cylinder gases using a flow rate of 100 mls min⁻¹ and are valid at 20°C, 50% RH and 1013 mBar, using Honeywell recommended circuitry. Performance characteristics outline the performance of sensors supplied within the first three months. Output signal can drift below the lower limit over time.

Note 1: Use of a regression coefficient shows a best fit straight line better than 0.9995 when measured through the four data points from testing with 100 % N₂, 21 % O₂, 60 % O₂ and 100 % O₂

All performance data is based on measurements made with cylinder gases using a flow rate of 100 mls/min. Conditions at 20°C, 50 % RH and 1013 mBar. For sensor performance data under other conditions, contact Honeywell.

Product Dimensions



All dimensions in mm

All tolerances ±0,15 mm unless otherwise stated

IMPORTANT NOTES

Connection should be made via mating parts only. Soldering to the sensor will result in damage and invalidate the warranty.

For further information on the external load resistance and connection to the recommended mating part, please see Operating Principle OP04 or contact Honeywell.

MEDICEL® GAS SENSORS

MOX3 SERIES

Poisoning

MediceLs are designed for operation in a wide range of environments and harsh conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instruments and operation. When using sensors with printed circuit boards (PCBs), degreasing agents should be used before the sensor is fitted. Do not glue directly on or near the MediceL as the solvent may cause crazing of the plastic.

Intended Use

These sensors are designed to be used to monitor the partial pressure of oxygen in anaesthesia (not including xenon), critical care, neonatal incubators and general oxygen monitors.

Stabilisation Time

Allow at least 15 minutes to stabilise in the instrument before calibration or refer to manufacturers instructions.

Cleaning and Sterilisation

In case of contamination the sensor may be cleaned with distilled water and allowed to dry naturally. The sensor is not suitable for sterilisation by steam or exposure to chemicals such as ethylene oxide or hydrogen peroxide.

Calibration Interval

These sensors are designed to have minimal drift over their useful lifetime. For maximum accuracy, however they should be calibrated before each use.

If the Sensor is Dropped

If a sensor is dropped, then it should be placed in quarantine for 24 hours and a follow-up check made by a 2-point calibration.

Mechanical Installation

When installing the sensor, it must only be screwed in hand-tight and a gas-tight seal ensured. Spanners and similar mechanical aids may not be used, as excessive force may damage the sensor thread.

RFI/EMI Susceptibility

MediceLs contain metal and may be susceptible to RFI or EMI. They are not suitable for use in MRI environments. For further information, please contact Honeywell.

Certifications



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Manufacturer: EnviteC-Wismar GmbH, Alter Holzhafen 18, 23966 Wismar, Germany
This product has been licensed for sale by the FDA in the US. For confirmation, see:
<http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cftrl/rl.cfm?lid=604764&lpcd=CCL>

MEDICEL® GAS SENSORS
MOX3 SERIES

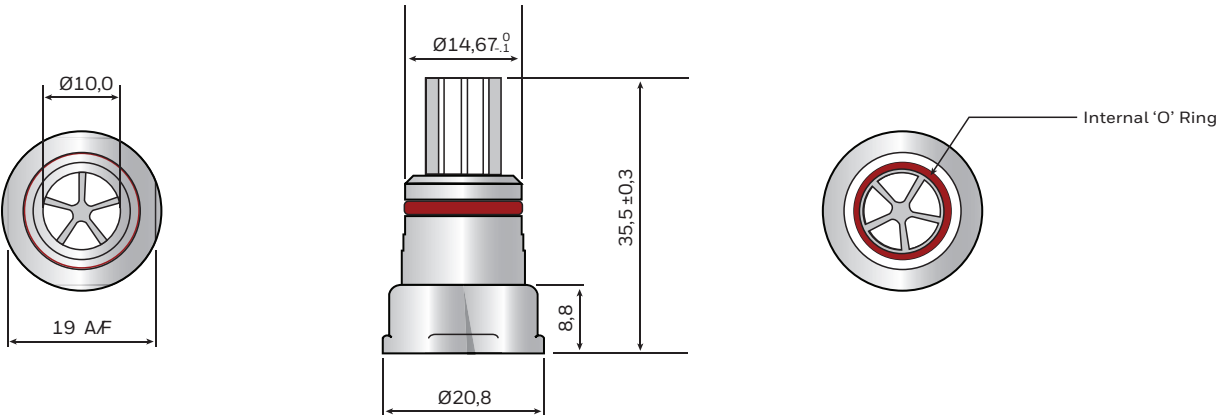
Cross Sensitivity Table

The table below shows how MOX3 MediceLs respond when tested with the gas mixtures listed in ISO 80601-2-55.

TABLE 2. CROSS SENSITIVITY	
TEST GAS	% O ₂ ERROR
50 % HE / 50 % O ₂	< 1 %
60 % N ₂ O / 40 % O ₂	< 1 %
2 % Halothane / 40 % O ₂ / 30 % N ₂ O / 5 % CO ₂ / Bal N ₂	< 1.5 %
2 % Enflurane / 40 % O ₂ / 30 % N ₂ O / 5 % CO ₂ / Bal N ₂	< 1.5 %
2 % Isoflurane / 40 % O ₂ / 30 % N ₂ O / 5 % CO ₂ / Bal N ₂	< 1.5 %

MOX Adaptor (15 mm Taper)

MOX3 sensors are supplied with an adaptor that can be fitted to the sensor thread and used to direct as flow to the sensor.



All dimensions in mm

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

For more information

Honeywell Sensing Solutions services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit automation.honeywell.com/hss or call:

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MediceL® is a trademark or registered trademark of Honeywell International, Inc., in the United States and other countries.

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WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions for use.

Failure to comply with these instructions could result in death or serious injury.

SAFETY NOTE

This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

Honeywell