Technical sheet

Product Name	Oxygen sensor for Servo MAQUET (6640044)
Reference	6640044
Manufacturer	MAQUET
Model	**Original**
Weight	0.038 kg
Suitable for	pour tous les Servo

Technical sheet

Product Name	
Reference	MAX-250B
Manufacturer	MAXTEC
Suitable for	R125P02-003

VLAD - 580 avenue des Landes du Cassantin 37210 PARCAY MESLAY, FRANCE - Phone +332 47 54 08 29

▷ 1. Output:

   10.0 to 15.5 mV in air at 1013 millibar pressure
   and a temperature range of 23±2 °C

▷ 2. Operating Temperature:

   5° to 40 °C

▷ 3. Maximum Storage Temperature:

   −15° to 50 °C

▷ 4. Optimal Storage Temperature:

   5° to 25 °C

5. Range of Measurement (Full Scale):

   0 to 100% oxygen

▷ 6. Zero Offset:

   Less than or equal to 0.50 mV when exposed to
   99.9% to 100% nitrogen

▷ 7. 90% Response Time:

   Less than or equal to 15 seconds at 23±2 °C

8. Linearity:

   Within +/− 1.0% of full scale

▷ 9. Stability:

   Less than 1% of full scale over an 8 hour period
   at constant temperature, pressure, and humidity.

▷ 10. Interference:

   Less than 2% of full scale in presence of 75% Nitrous oxide
   Less than 2% of full scale in presence of 5% Halothane
   Less than 2% of full scale in presence of 5% Isoflurane
   Less than 2% of full scale in presence of 5% Enflurane
   Less than 2% of full scale in presence of 6% Sevoflurane
   Less than 2% of full scale in presence of 15% Desflurane
   Less than 2% of full scale in presence of 10% Carbon Dioxide
   Less than 2% of full scale in presence of 70% Helium

▷ 11. Temperature Compensation:

   Less than ± 3.0% from 15° to 40°C

▷ 12. Expected Life

   > 1,500,000% oxygen hours under normal operating conditions

▷ 13. Humidity

   5% to 95% Relative Humidity non−condensing

R125P20 F

⌀.90

⌀.90

1.85

2.47

M16 x 1 Thread

M16 x 1 Thread
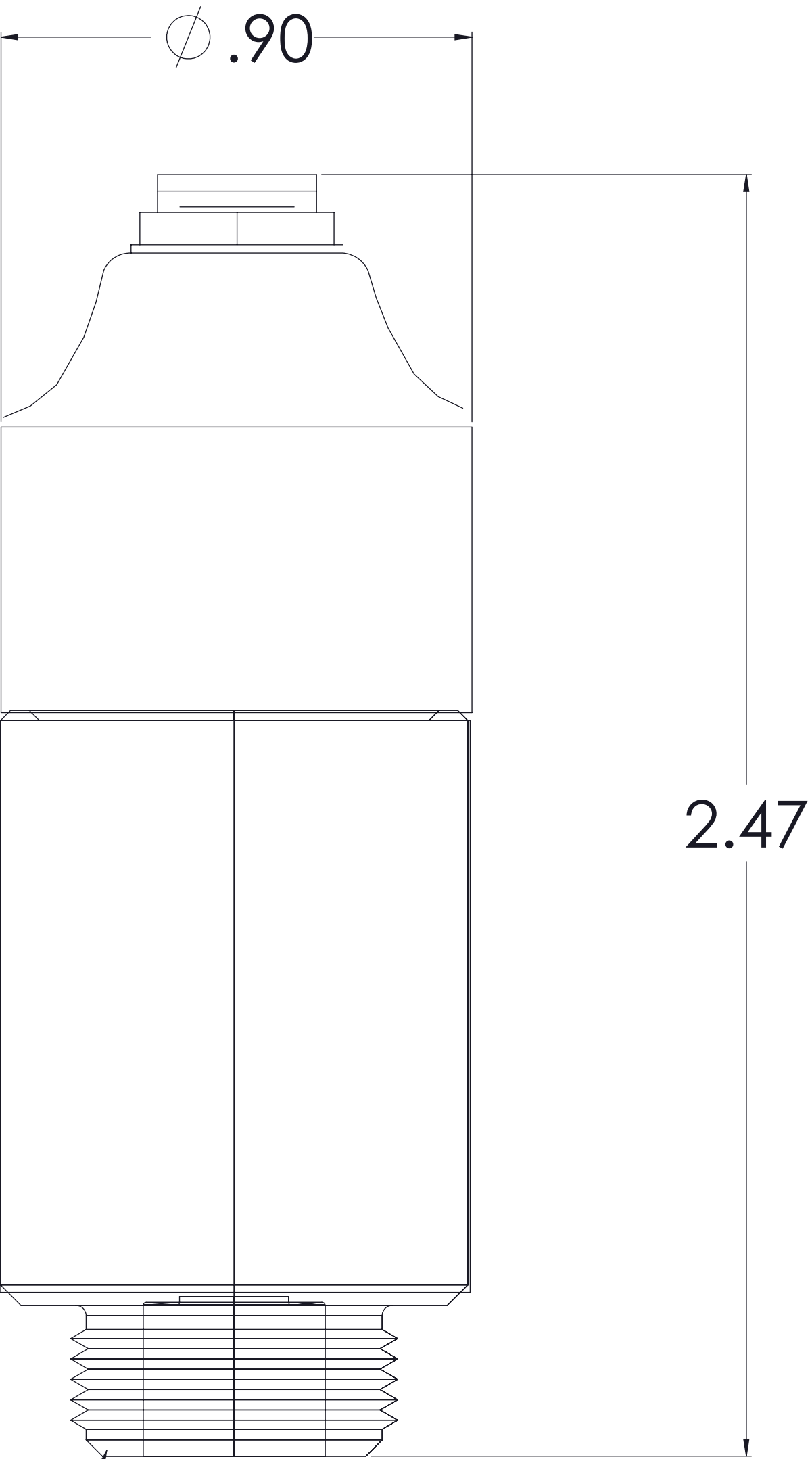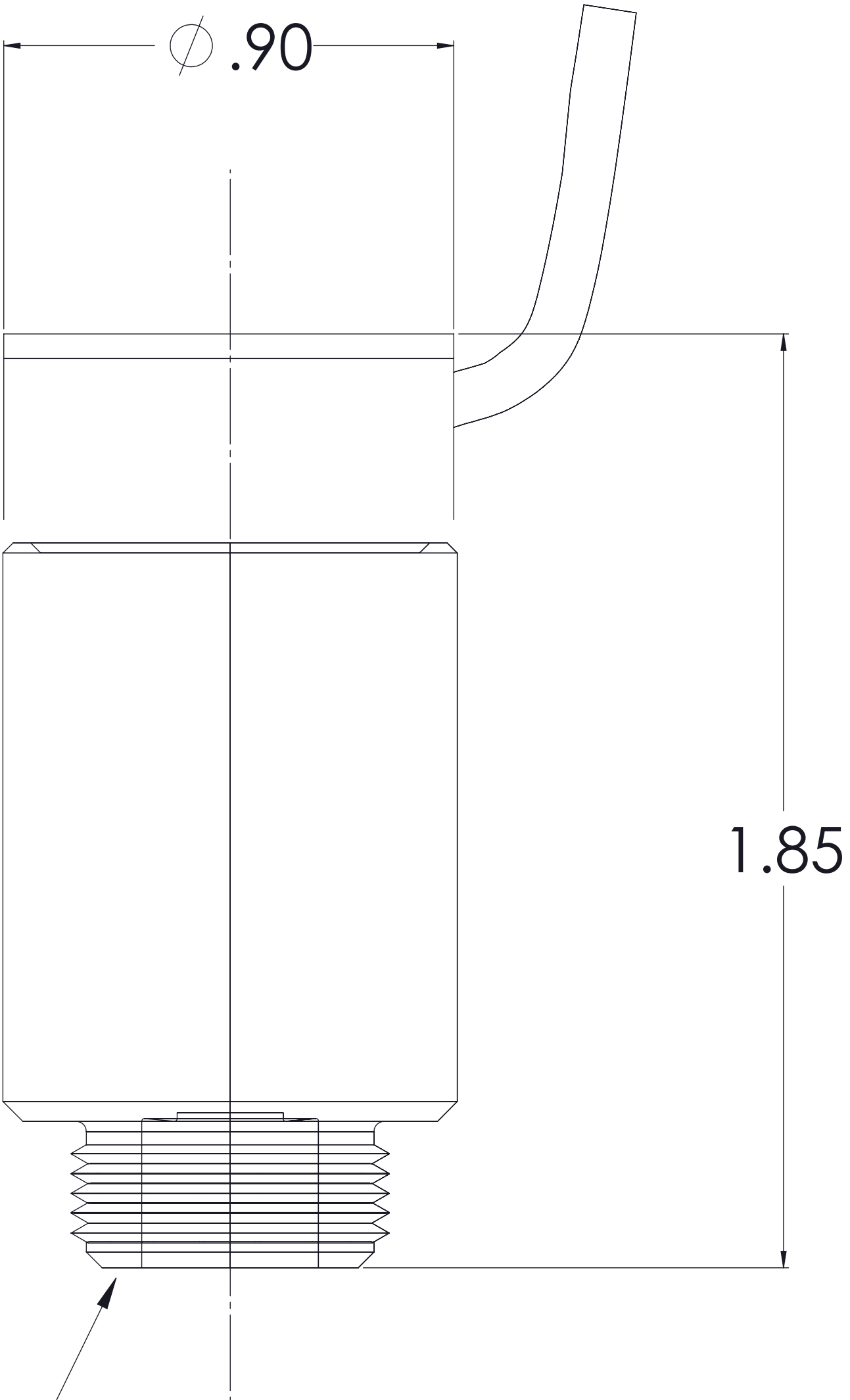
SIZE B	FSCM NO. 1S815	NUMBER R125P20	REV F
SCALE NONE		SHEET 2 OF 2	

Technical sheet

Product Name	Oxygen cell for Savina DRAGER (MX01049)
Reference	MX01049
Manufacturer	DRAGER
Model	**Original**
Weight	0.015 kg

O$_2$ Sensors which you can rely on. Providing the organism with sufficient oxygen is the most important task when ventilating patients. Oxygen sensors clearly play a vital role here, as they continuously measure and monitor the oxygen content of the breathing gas, an essential respiratory parameter.

Dräger. Technology for Life®

Benefits

O$_2$ sensors

Oxygen sensors play a vital role in the monitoring of ventilated patients, as they measure and monitor the oxygen content of the respiratory gas on a continuous basis. The importance of this parameter is reflected in the number of guidelines and recommendations that exist. Dräger oxygen sensors comply with relevant national and international requirements. Furthermore, they have been extensively tested and adapted to work perfectly with Dräger devices and systems. This is particularly important for minimising the risk to patients and users.

Dräger Originals

Our sensors have been specially developed for use with our anaesthetic and ventilation devices, and have coordinated properties, thus ensuring the highest possible levels of accuracy, durability, reliability and functionality. Our Originals provide high quality standards for your working environments and workflows.

Dräger O$_2$ sensors offer:

– 100% compatibility with Dräger devices and systems
– High measurement accuracy with above-average quality standards and comprehensive testing
– Compliance with relevant national and international requirements

Benefits

O$_2$ sensor capsule

The electrochemical O$_2$ sensor capsule was introduced to the market in 1977 in as a means of measuring and monitoring the inspiratory O$_2$ concentration in anaesthesia and respiratory devices. Since then, over **1.6 million*** units have been produced and delivered to locations around the world. This sensor is still being used, for example in the Fabius range, the Babylog 8000+ and the Oxydig. O$_2$ sensor capsules have a useful life of over 12 months.

Design and operation:

The Dräger O$_2$ sensor capsules are electrochemical instruments for measuring O$_2$ partial pressure. They operate on the principle of a galvanic cell. The gas mixture to be monitored diffuses through a plastic membrane into the sensor's liquid electrolyte. The electrolyte contains a working electrode (gold electrode) and a counter-electrode (lead electrode). The electrolyte and the electrode materials and carefully selected to electrochemically reduce the oxygen to be monitored at the working electrode.

$$O_2 + 2H_2O + 4e- \rightarrow 4OH$$
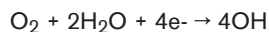
Simultaneously, the counter-electrode is oxidised:

$$2Pb \rightarrow 2Pb2+ + 4e-$$

This results in a current that flows through the sensor, which is proportional to the O$_2$ partial pressure in the gas mixture being monitored.

Benefits

OxyTrace Sensor range

The product range includes three sensors for different uses, with the OxyTrace A being used with the Zeus, the OxyTrace VE with the Savina range and the OxyTrace Incu with the Caleo. The sensors are made from the smallest sensor components, in "XS" format, and measure only 20 mm in diameter and 34 mm in height. The useful life of OxyTrace sensors is over 30 months, and they have been proven to be technically stable since their first introduction on to the market in 1999.

Design and operation:

OxyTrace sensors are electrochemical non-consumable oxygen sensors that work according to the principle of an oxygen pump. There is a measuring electrode, a reference electrode and a counter-electrode in the electrolyte. These are electronically operated using a potentiostat switch so that oxygen is reduced at the measuring electrode:

$$O_2 + 4H^+ + 4e^- \rightarrow 2H_2O$$
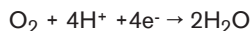
Simultaneously, water is electrolysed at the counter-electrode:

$$2H_2O \rightarrow O_2 + 4H^+ + 4e^-$$
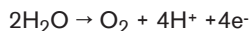
Overall, the oxygen that arrives at the measuring side of the sensor is then returned at the counter-electrode side, without the sensor being changed. This produces an electrical current that, depending on the gas influx, is proportional to the O$_2$ concentration in the gas being monitored.

Oxycell O$_2$ sensor

The Dräger Oxycell sensor is from the newest generation and contains the smallest sensor elements in "XXS" format, with a very rapid response time of under 1 second. These sensors work in the same way as OxyTrace sensors, according to the oxygen pump principle.

The integration of Oxycell O$_2$ sensors into planned and new generations of devices, for example in the field of heat therapy in the Dräger IncuWarmer Babyleo® TN500, is setting the course for the trend towards miniaturised and non-consumable sensors. Their tested useful life is currently 24 months.

Technical Data

	O$_2$ sensor capsule	OxyTrace INCU	OxyTrace A / VE	Oxycell O$_2$ Sensor
Measuring range	0 to 100 Vol. % oxygen	0-80 Vol% O$_2$	0 to 100 Vol. % oxygen	0 to 100 Vol. % oxygen
T10-90 response time	20 sec.	15 sec.	5 sec.	< 800 ms
Operating temperature	15 to 40 ℃	18 to 45 ℃	0 to 50 ℃	5 to 50 ℃
Storage temperature	-20 to 40 ℃	-20 to 50 ℃	-20 to 50 ℃	-20 to 50 ℃
Dimensions	Diameter 28 mm, height 22 mm	Diameter 20 mm, height 33.6 mm	Diameter 20 mm, height 33.6 mm	Height 15 mm, width 20.4 mm, length 31 mm

Ordering Information

O$_2$ sensor capsule (Evita® XL, Evita® 4 edition, Evita® 2 dura, Babylog® 8000 plus, Fabius Family)	6850645
OxyTrace INCU (Caleo®)	MX01050
OxyTrace A (Zeus® Infinity® Empowered)	6871028
OxyTrace VE (Savina Family)	MX01049
Oxycell O$_2$ sensor TN (Babyleo® TN500)	6873065
Oxycell O$_2$ sensor A (Atlan® A300/A300 XL)	6872666

Notes

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

Manufacturer:
Drägerwerk AG & Co. KGaA
Moislinger Allee 53-55
23542 Lübeck, Germany

REGION EUROPE
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION MIDDLE EAST, AFRICA
Drägerwerk AG & Co. KGaA
Branch Office
P.O. Box 505108
Dubai, United Arab Emirates
Tel +971 4 4294 600
Fax +971 4 4294 699
contactuae@draeger.com

REGION ASIA PACIFIC
Draeger Singapore Pte. Ltd.
61 Science Park Road
The Galen #04-01
Singapore 117525
Tel: +65 6872 9288
Fax: +65 6259 0398
asia.pacific@draeger.com

**REGION CENTRAL AND
SOUTH AMERICA**
Dräger Indústria e Comércio Ltda.
Al. Pucurui - 51 - Tamboré
06460-100 - Barueri - São Paulo
Tel. +55 (11) 4689-4900
relacionamento@draeger.com

**Locate your Regional Sales
Representative at:
www.draeger.com/contact**

Air Liquide battery for Monnal T75 ventilator

The price is valid only for the online store and may differ from the prices in retail stores.

Air Liquide battery for Monnal T75 ventilator

Catalog Number: 110588-U, KY633300

Technical Characteristics

- *Battery Type: Lithium-ion*

- *Voltage: 14.4 V*

- *Capacity: 6600 mAh*

- *Energy: 95 Wh*

- *Compatibility: Monnal T75 Ventilator*

- *Charging Time: Approximately 4 hours*

- *Operating Time: Up to 10 hours based on the ventilator settings*

- *Cycle Life: Over 500 cycles*

- *Operating Temperature: -20°C to 60°C (-4°F to 140°F)*

- *Storage Temperature: -20°C to 45°C (-4°F to 113°F)*

- *Battery Management System (BMS): Included*

- *Protection Features: Overcharge, Overdischarge, Short Circuit, Overcurrent Protection*

Medical Devices Using Air Liquide Battery

- *Monnal T75 Ventilator*

- *Monnal T60 Ventilator*

- *Monnal T50 Ventilator*

- *Monnal Evita Ventilator*

- *Monnal Esprit Ventilator*

Technical sheet

Product Name	Battery 12V 3Ah for respirator Savina DRÄGER (1841416)
Reference	EXA3.5-12
Manufacturer of the device	DRAGER
Model	**Exalium**
Technology	Plomb
Voltage	12.00 V
Capacitance	3.50 A/h
Length	135 mm
Width	67 mm
Height	64 mm
Weight	1.190 kg
Suitable for	SAVINA - FABIUS GS

Technical sheet

Product Name	24V 3Ah battery for DRAGER Babylog VN5000 (8415290-08)
Reference	BABYLOG-C
Manufacturer	DRAGER
Model	**Compatible**
Technology	Ni-mh
Voltage	24.00 V
Capacitance	3.00 A/h
Suitable for	DRAEGER BABYLOG VN5000 / EVITA INFINITY V500 / EVITA V600 V300

Technical sheet

Product Name	Battery 12V 4Ah for ventilator ServoI MAQUET
Reference	SERVOi
Manufacturer	MAQUET
Model	**Original**
Technology	Ni-mh
Voltage	12.00 V
Capacitance	3.50 A/h
Weight	0.620 kg

AB certification

cofrac

CERTIFICATION
DE SYSTEMES
DE MANAGEMENT
Accréditation
N°4-0023
PORTÉE
DISPONIBLE
SUR
www.cofrac.fr

CERTIFICATE

N° A 3140 - 9001

We hereby certify that the Management System of the company:

VLAD

580 avenue des Landes du Cassantin

37210 Parçay-meslay

France

is in compliance with the requirements of the following standard:

ISO 9001 : 2015

The scope of the Management System is:

Studies, Design, Manufacturing, Marketing and Distribution of cells, accumulators and batteries for medical and industrial applications.

This certificate is valid until its expiry date unless further notice, provided that the compliance and implementation of the Management System are found to be satisfactory at follow-up audits and that AB Certification contract rules are fulfilled.

Certificate issue date : **15th of November 2024**

Expiry date : **2nd of December 2027**

Initial issue date : **3rd of December 2018**

AB Certification Representative
Georges ABI RACHED

The Company Representative

AB certification

CERTIFICATE

cofrac

CERTIFICATION
DE SYSTEMES
DE MANAGEMENT
Accréditation
N°4 -0640
PORTÉE
DISPONIBLE
SUR
www.cofrac.fr

N° A 3140 - 13485

We hereby certify that the Management System of the company:

VLAD

580 avenue des Landes du Cassantin
37210 Parçay-meslay
France

is in compliance with the requirements of the following standard:

NF EN ISO 13485 : 2016/A11 : 2021

The scope of the Management System is:

Design, manufacturing, and marketing of batteries necessary for the operation of medical devices. Importation and distribution of consumable products necessary for the operation of medical devices.

This certificate is valid until its expiry date unless further notice, provided that the compliance and implementation of the Management System are found to be satisfactory at follow-up audits and that AB Certification contract rules are fulfilled.

Certificate issue date : 15th **of November 2024**

Expiry date : 2nd **of December 2027**

Initial issue date : 3rd **of December 2018**

_____
AB Certification Representative
Georges ABI RACHED

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The Company Representative