

PRODUCT SHEET

OXYGEN DETECTION ALARM UNIT – DC-02-100 SERIES

Transfer Lines

Conditioning
Equipment

Components

Filling Stations

Controlling

DC-LC-110

DC-LS-50

DC-02-100

The DC-02-100 is an easy-to-mount, standalone and weatherproof oxygen (O₂) detection alarm unit developed for monitoring oxygen levels where suffocation due to repressed oxygen might occur. Our design resulted in 4 simple models, straight-forward design with an easy-to-understand functionality, that covers the primary function of oxygen detection within closed rooms or small environments.

Alarm output is given by two adjustable detection stages;

First stage or 'Pre-alarm' is factory-set to 19.5% O₂.

Second stage or 'Main alarm' is factory-set to 17% O₂. 'Pre alarm' and 'Main alarm' are each provided with two extra integrated potential-free NO/NC changeover relays that can be connected to other control systems or a building management system.



BENEFITS

Easy to operate

Four predefined models

Spare parts available worldwide

FEATURES

Weatherproof casing with transparent cover

Ingress protection IP65

Main switch two-pole design

Double-fused

Integrated power supply for 110/230VAC

Integrated local buzzer

Adjustable Pre-alarm at 19.5%, including 2 extra free-for-use NO-NC potential-free relays

Adjustable Main alarm at 17%, including 2 extra free-for-use NO-NC potential-free relays

APPLICATION

The DC-02-100 is used to measure, display, validate, and control actions on preset oxygen levels to allow safe working conditions.

→ www.demaco.nl

 **DEMACO**

PRODUCT SHEET

OXYGEN DETECTION ALARM UNIT – DC-02-100 SERIES

TECHNICAL DATA

Dimension casing	280x218x156mm (LxHxD)
Material casing	ABS
Material transp. cover	Polycarbonate
Power supply	110/240VAC 48-63Hz
Ingress protection	IP65
Integrated Buzzer	Rigt side – 105dB
Output alarm 19,5%	2x Voltage free changeover relat NO/NC, max. 3A at 230VAC
Output alarm 17%	2x Voltage free changeover relat NO/NC, max. 3A at 230VAC
Power cable	L=5 meter with Type F plug



STANDARD SCOPE OF DELIVERY

DC-02-100 is available in four different models, varying by the number of sensors:

DC-02-101	1 x O2 Sensor
DC-02-102	2 x O2 Sensor
DC-02-103	3 x O2 Sensor
DC-02-104	4 x O2 Sensor

In case more than four O2 detectors are required, 8 or 16 channel alarm units are available on request.

OPTIONAL ITEMS

KD-120 Oxygen detector⁽¹⁾

KD-120 Oxygen detector with wire-extended remote sensor⁽¹⁾

Sounder

Sounder with integrated LED beacon

Traffic light with sounder

(1) The correct number of oxygen detectors depends strongly on room dimensions, death spots and present ventilation. Advice on best location placing and quantities can be provided.

PRODUCT SHEET

OXYGEN DETECTION ALARM UNIT – DC-02-100 SERIES



KD - 120 OXYGEN SENSOR

This O₂ detector with galvanic cell is placed 1500 mm above floor level.

Remote sensor with extended wire is required when sensor is placed at 300 mm.

FEATURES

LED Display

Easy sensor replacement

Rugged, compact and lightweight

Galvanic Oxygen cell

Dim. (WxHxD): 158 x 116 x 68 mm

Ex d II BT5

BEACON – FEATURES:

Xenon strobe

Flash rate 1Hz

First-fix, wire-to-base technology

IP66 rated

Size: 115x87x83 mm (LxWxD)



SOUNDER – FEATURES:

High output sounder 105dB

Three alarm stages

First-fix, wire-to-base technology

IP66 rated

Volume control for greater flexibility

64 tones



SOUNDER WITH INTEGRATED BEACON – FEATURES:

High-output sounder 105dB

High-efficiency LED Beacon

Three alarm stages

First-fix, wire-to-base technology

IP66 rated

Volume control for greater flexibility / 64 tones

Separate connections for beacon and sounder



PRODUCT SHEET

OXYGEN DETECTION ALARM UNIT – DC-02-100 SERIES

LED NOTIFICATION SIGN

Safety sign with 'light off text invisible' transparent armature

Normal colour: white

Red light illuminated

Dimension: 500x134

Power rating 230 VAC

Text on request



CALIBRATION OF O₂ SENSORS

Oxygen detection is lifesaving equipment and thus requires maintenance by testing against special gas mixtures on a regular basis. Minimum of testing at least once per year, but twice per year is strongly advised. Demaco can provide this testing and calibration of sensors through a service contract. Each sensor will be tested and calibrated individually to ensure full functionality and reliability.

For more detailed information about service contracts and prices please contact Demaco by sending an email to: sales.cryo@demaco.nl

Quantity	Item
	DC-02-101 control cabinet for 1 oxygen sensor
	DC-02-102 control cabinet for 2 oxygen sensors
	DC-02-103 control cabinet for 3 oxygen sensors
	DC-02-104 control cabinet for 4 oxygen sensors
	KD-12 O ₂ sensor
	KD-12 O ₂ sensor with remote sensor head
	Beacon
	Sounder
	Sounder with integrated beacon
	LED notification panel

DEMACO HOLLAND BV
OESTER 2
NL-1723 HW NOORD-SCHARWOUDE
T +31 (0)226 33 21 00
E INFO@DEMACO.NL

→ www.demaco.nl

 **DEMACO**