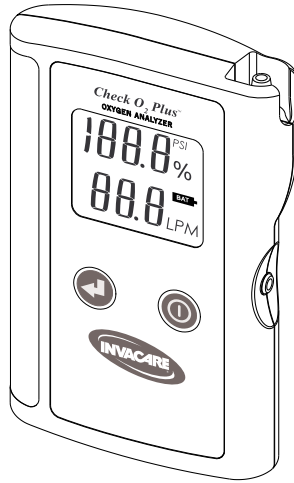


# Invacare® Check O<sub>2</sub> Plus™

IRC450



CE-0123

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This manual **MUST** be given to the user of the product.  
**BEFORE** using this product, read this manual and save for future reference.



**Yes, you can.®**

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# I General

## I.1 Symbols

Signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



### **DANGER!**

– Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



### **WARNING!**

– Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



### **CAUTION!**

– Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.



Gives useful tips, recommendations and information for efficient, trouble-free use.



This product complies with Directive 93/42/EEC concerning medical devices.

The launch date of this product is stated in the CE declaration of conformity.

## I.2 Intended Use



### **WARNING!**

- The Check O<sub>2</sub> Plus is for checking oxygen concentrators only.
- DO NOT use the Check O<sub>2</sub> Plus for continuous oxygen monitoring.

The Check O<sub>2</sub> Plus is for use only by trained personnel.

The Check O<sub>2</sub> Plus Oxygen Analyzer measures oxygen concentration and flow using ultrasound technology and measures pressure using a piezoresistive silicon pressure sensor.

The Check O<sub>2</sub> Plus Oxygen Analyzer is a tool used to measure oxygen purity, flow and pressure at the outlet of an oxygen concentrator. It is not intended to be used by patients who are prescribed oxygen, nor is it intended to continuously monitor or confirm oxygen delivery to a patient.

The Check O<sub>2</sub> Plus Oxygen Analyzer is intended to be used in an environment where oxygen concentrators are being serviced or repaired. This includes Hospitals, Nursing Homes, Extended Care Facilities, Patient Homes, and Respiratory Device Service and Repair Centers.

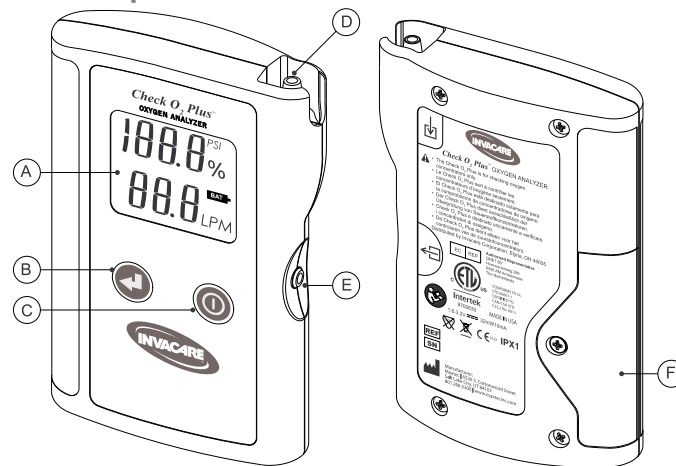
## 2 System Overview

### 2.1 Description and Principle of Operation


The Check O<sub>2</sub> Plus is an oxygen analyzer designed to check the oxygen concentration, flow and outlet pressure of oxygen concentrators. The Check O<sub>2</sub> Plus provides unparalleled performance and reliability from its advanced design that includes the following features and operational benefits:

- Accurate oxygen measurements
- No in-field calibration required
- Convenient ability to measure pressure in PSI or kPa
- Durable, compact design
- Large, easy-to-read, liquid crystal display (LCD)
- Shielded, reinforced sample gas inlet port
- Long battery life with 2 AA batteries
- Auto-off after 4 minutes
- Low battery indication
- Self-diagnostics
- Easy to clean

### 2.2 Component Identification




(A) LCD Display

(B) Mode Button 

(C) On/Off Button 















(D) Gas Sample Inlet 

(E) Gas Sample Outlet 

(F) Battery Door 

## 2.3 Symbol Guide

The following symbols and safety labels are found on the Check O<sub>2</sub> Plus:

	Authorized representative in the European Community		On/off button
	Do not throw away. Follow local guidelines for disposal.		Mode button
	Evaluated by ETL (Intertek Testing Laboratories)		Low battery
	Manufacturer	LPM	Liter per minute flow
IPX1	Ingress protection	PSI	Pounds per square inch
	Latex free	kPa	Kilopascals
	Serial number	%	Percent
	Catalog number		Gas Sample Inlet
	Consult accompanying documents		Gas Sample Outlet
			Direct current

## 2.4 Component Description

**3 1/2 Digit Display** — The LCD provides direct readout of oxygen concentration, gas flow and gas pressure. The LCD also displays error codes as necessary.

**ON/OFF Button** — Turns the device on or off.

**Mode Button** — Switches between measuring the concentration of gas produced by an oxygen concentrator and pure oxygen (for calibration verification).

**Low Battery Indicator** — Indicates the voltage of the batteries is below normal operating levels.

**LPM** — Illuminated next to the flow measurement. (not shown when in calibration verification)

**kPA** — Indicates the pressure measurement is in units of kilopascals.

**PSI** — Indicates the pressure measurement is in units of pounds per square inch.

**“%” symbol** — Illuminated next to the concentration measurements.

**Gas Sample Inlet** — Used to receive the gas sample.

**Gas Sample Outlet** — Used as an outlet for the gas sample and as a trigger for pressure measurement when occluded.

**Gas Sample Tubing** — Used to connect to gas sample sources.

## 2.5 Included with Your Unit

- User Manual
- Gas Sample Tubing
- Soft Cover

## 3 Safety

### 3.1 General Guidelines



#### **WARNING!**

- This section contains important information for the safe operation and use of this product.
- **DO NOT USE THIS PRODUCT OR ANY AVAILABLE OPTIONAL EQUIPMENT WITHOUT FIRST COMPLETELY READING AND UNDERSTANDING THESE INSTRUCTIONS AND ANY ADDITIONAL INSTRUCTIONAL MATERIAL SUCH AS USER MANUALS, SERVICE MANUALS OR INSTRUCTION SHEETS SUPPLIED WITH THIS PRODUCT OR OPTIONAL EQUIPMENT. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS OR INSTRUCTIONS, CONTACT A HEALTHCARE PROFESSIONAL, DEALER OR TECHNICAL PERSONNEL BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE, INJURY OR DAMAGE MAY OCCUR.**

#### **ACCESSORIES WARNING**

- Invacare products are specifically designed and manufactured for use in conjunction with Invacare accessories. Accessories designed by other manufacturers have not been tested by Invacare and are not recommended for use with Invacare products.



#### **DANGER! TO REDUCE THE RISK OF BURNS, ELECTROCUTION, FIRE OR INJURY TO PERSONS**

- Not for use in anesthesia applications or for measuring oxygen concentration from any sources other than conventional oxygen concentrators.
- Not for use with inhalation agents. Operating the Check O<sub>2</sub> Plus Plus in flammable or explosive environments may result in fire or explosion.
- Not suitable for use in the presence of flammable anesthetic mixtures.
- Oxygen rapidly accelerates combustion. Do not smoke while using the Check O<sub>2</sub> Plus for checking oxygen concentrators.
- **NOT** for use in an MRI environment.

**WARNING!**

Improper use of the Check O<sub>2</sub> Plus can cause inaccurate oxygen readings leading to improper treatment and/or patient harm. Follow the procedures outlined in this user manual.

- Users must become thoroughly familiar with the information contained in this User Manual before use. Strict adherence to the operating instructions is necessary for safe, effective product performance. This product will perform only as designed if operated in accordance with the manufacturer's operating instructions.
- DO NOT use the Check O<sub>2</sub> Plus to measure the oxygen concentration of a concentrator when flowing at rates lower than its optimal performance as specified by the concentrator manufacturer; generally 4 LPM or less on concentrators that have a maximum flow of 10 LPM, and 1 LPM or less on concentrators that have a maximum flow of 5 LPM.
- Use of the Check O<sub>2</sub> Plus near devices that generate electrical fields may cause erratic readings.
- If the Check O<sub>2</sub> Plus is ever exposed to liquids from spills or immersion, immediately remove the batteries and let the device dry completely. When dry, replace the batteries and check for proper operation.

**WARNING!**

- DO NOT autoclave or expose the Check O<sub>2</sub> Plus to high temperatures (>60° C [140° F]).
- DO NOT use ethylene oxide sterilization.
- DO NOT expose the Check O<sub>2</sub> Plus to irradiation, vacuum, steam, or harsh chemicals.
- DO NOT expose the Check O<sub>2</sub> Plus to pressure greater than 50 psi. Exposure to pressure above 50 psi could cause leaks in the device which may adversely affect performance in flow and pressure readings.
- Repair or alteration of the Check O<sub>2</sub> Plus by anyone other than a qualified technician could cause the product to fail to perform as designed.





### CAUTION!

- Replace the batteries with high quality AA Alkaline or Lithium batteries. **DO NOT** use rechargeable batteries.
- When not in use for periods greater than 30 days remove the batteries to protect the Check O<sub>2</sub> Plus from potential battery leakage.
- Avoid dropping the Check O<sub>2</sub> Plus to prevent damage which may adversely affect its performance. If damage to the device is suspected, perform 4.3 Calibration Verification Procedure, page 10.
- Avoid foreign matter entry into the Check O<sub>2</sub> Plus .
- **DO NOT** use the Check O<sub>2</sub> Plus to check a concentrator with a humidifier in place. Humidity could damage the device.
- **DO NOT** check a concentrator while holding the mode button or the reading will be inaccurate.
- Following storage in extremely hot or cold conditions, allow the gas to flow through the analyzer long enough for the internal sensors to reach the gas stream temperature, or wait for the analyzer to equilibrate to room temperature before use.

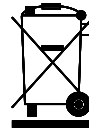
### 3.2 Disposal

This product has been supplied from an environmentally aware manufacturer that complies with the Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/CE.

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation.

Please be environmentally responsible and recycle this product through your recycling facility at its end of life.

The batteries and circuit board are not suitable for regular trash disposal.



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## 4 Operating Instructions

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### 4.1 Oxygen, Flow and Pressure Measurement

To check oxygen concentration, flow and pressure of a gas sample from a concentrator:

1. Connect the gas sample tubing to the gas sample inlet of the Check O<sub>2</sub> Plus.
2. Attach the other end of the gas sample tubing to the oxygen concentrator.
3. Initiate the flow of gas to the Check O<sub>2</sub> Plus at a rate of 1-10 liters per minute (2 liters per minute is recommended). Ensure the concentrator's output is stable per the concentrator manufacturer's recommendations.
4. Turn on the Check O<sub>2</sub> Plus.
5. Allow the oxygen reading to stabilize for approximately 10 seconds before reading the oxygen concentration and flow.
6. To check pressure, cover the gas sample outlet with thumb or finger while gas is flowing.
7. Wait 5 seconds for the display to read pressure.

 DO NOT hold the mode button while checking a concentrator or the reading will be inaccurate.

### 4.2 Switching Pressure Units of Measure

The Check O<sub>2</sub> Plus can measure pressure in PSI or kPa. The Check O<sub>2</sub> Plus is factory set to measure in PSI. To switch to kPa:

1. Using a #1 Phillips screwdriver loosen the battery door screw and remove the battery door.
2. Toggle the switch inside the battery compartment.
3. Replace the battery door and tighten the battery door screw.

### 4.3 Calibration Verification Procedure

A calibration verification mode is provided to verify that the Check O<sub>2</sub> Plus is functioning properly. To perform the calibration verification:

1. Turn on the Check O<sub>2</sub> Plus.
2. Connect a source of pure oxygen (<sup>3</sup>99.95%) to the gas sample inlet
3. Flow 2–5 LPM of gas into the Check O<sub>2</sub> Plus. Ensure that the gas flowing to the Check O<sub>2</sub> Plus is at a stable temperature.
4. Press and hold the mode button. While holding the mode button, the gas measurement should read between 98.5 and 101.5% oxygen. If the gas measurement is not within this range, call Customer Service. Calibration verification mode is indicated by “CAL” and “VER” flashing on screen beneath the gas measurement.

### 4.4 Factors Influencing Accurate Readings

#### Effects of Temperature

The Check O<sub>2</sub> Plus compensates for temperature and will perform within specifications throughout the operating temperature range. However, taking measurements during rapid changes in gas temperature should be avoided.

#### Effects of Humidity

The Check O<sub>2</sub> Plus has a humidity sensor to detect and compensate for the humidity of gas entering the device. However, high levels (condensing) of humidity can affect the accuracy and reliability of the Check O<sub>2</sub> Plus. To prevent possible damage:

- Avoid usage in environments of greater than 95% relative humidity
- DO NOT use this device in a breathing circuit
- DO NOT breathe or blow into the Check O<sub>2</sub> Plus

## Effects of Other Gases

The Check O<sub>2</sub> Plus is designed to measure two different types of gas mixtures:

- Oxygen, nitrogen and argon from oxygen concentrators
- Pure oxygen during calibration verification mode

Any other concentrations or combinations of gases will cause the Check O<sub>2</sub> Plus to measure oxygen concentration incorrectly.

## Effects of Low Flow

Oxygen concentrators function on the principle of removing nitrogen gas from air, leaving concentrated oxygen and argon at a specific oxygen to argon ratio. This operating principle may be altered when concentrators are set to flow at the low end of their operational range. At low flows they may output a low oxygen concentration, e.g. 85% to 91%, for reasons other than high nitrogen, possibly due to an increase in argon content. The Check O<sub>2</sub> Plus requires that the ratio of oxygen to argon remain constant in order to guarantee an accuracy of +/-1.5% oxygen.

- DO NOT use the Check O<sub>2</sub> Plus to measure the oxygen concentration of a concentrator when flowing at rates lower than its optimal performance as specified by the concentrator manufacturer; generally 4 LPM or less on concentrators that have a maximum flow of 10 LPM, and 1 LPM or less on concentrators that have a maximum flow of 5 LPM.

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## 5 Error Codes

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### 5.1 Error Codes


The Check O<sub>2</sub> Plus has self diagnostic features built into the software to detect faulty readings outside of normal operating ranges. The codes, descriptions and recommended actions are:

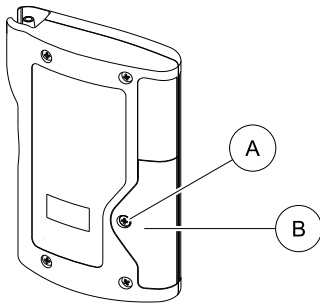
- **E01:** Oxygen measurement out of range Hi ( <sup>3</sup> 102.0% calculated by algorithm).  
Recommended Action: Verify that the Check O<sub>2</sub> Plus is being used in the correct mode (Concentrator or Calibration Verification mode). If error code repeats; perform a calibration verification. If error code repeats again; Call Service Provider.
- **E02:** Oxygen measurement out of range Low ( <sup>3</sup> -2.0% calculated by algorithm).  
Recommended Action: Verify that the Check O<sub>2</sub> Plus is being used in the correct mode (Concentrator or Calibration Verification mode). If error code repeats; perform a calibration verification. If error code repeats again; Call Service Provider.
- **E03:** Device memory corrupt or missing.  
Recommended Action: Call Service Provider.

- **E04:** Signal reading not stable.  
Recommended Action: Call Service Provider.
- **E05:** Pressure measurement out of Range Hi ( <sup>3</sup> 50 PSI).  
Recommended Action: Check the pressure on a known gas source pressure. If error code repeats; Call Service Provider.
- **E06:** Outside of operating temperature Hi ( <sup>3</sup> 40° C).  
Recommended action: The Check O<sub>2</sub> Plus is too hot, cool the device closer to room temperature before use.
- **E07:** Outside of operating temperature Low ( <sup>3</sup> 15° C).  
Recommended action: The Check O<sub>2</sub> Plus is too cold, warm the device closer to room temperature before use.
- **E08:** Device self check found error.  
Recommended Action: Remove and replace the batteries. If error code repeats; Call Service Provider.

## 6 Changing the Batteries

### 6.1 Battery Replacement Procedure

Batteries should be changed when the  icon illuminates. The icon will remain lit until the batteries are changed. If the battery power level is too low the Check O<sub>2</sub> Plus will not power on until the batteries are changed.



1. Using a #1 Phillips screwdriver loosen the battery door screw **A** and remove the battery door **B**.
2. Remove the batteries.
3. Insert new batteries ensuring correct polarity. **DO NOT** use rechargeable batteries.
4. Replace the battery door and tighten the battery door screw.
5. If the Check O<sub>2</sub> Plus does not power on when done verify the batteries are installed correctly and that the batteries are fresh.

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## 7 Cleaning and Maintenance

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### 7.1 Cleaning

**CAUTION!**

Use caution to prevent any fluid from entering the Check O<sub>2</sub> Plus .

- DO NOT soak or immerse the Check O<sub>2</sub> Plus in fluid.
- DO NOT autoclave or expose the Check O<sub>2</sub> Plus to ethylene oxide sterilization.


Wipe down the exterior surfaces of the Check O<sub>2</sub> Plus with a moist cloth and mild hand or dish soap (pH 6–8).

### 7.2 Maintenance

- Replace the batteries with high quality AA Alkaline or Lithium batteries. DO NOT use rechargeable batteries.
- When not in use for periods greater than 30 days, remove the batteries to protect the unit from potential battery leakage.
- Store the Check O<sub>2</sub> Plus between -15° C and 60° C (5° F — 140° F)

## 8 Technical Data

### 8.1 Product Parameters

<b>OXYGEN</b>		
Oxygen Measurement Range: (from a concentrator)	20.9 - 96%	
Oxygen Measurement Accuracy:	±1.5 % of full scale at constant temperature and optimal flow*	
Oxygen Measurement Resolution:	0.1% Oxygen	
 See Effects of Low Flow, page 11 of this operating manual for information on the effects of low flow.		
<b>FLOW</b>		
Flow Measurement Range:	0 - 10 LPM	
Flow Measurement Accuracy:	±0.2 LPM	
Flow Measurement Resolution:	0.1 LPM	
<b>PRESSURE</b>	<b>PSI</b>	<b>KPA</b>
Pressure Measurement Range:	0.5 - 50	3.4 - 344
Pressure Measurement Accuracy:	±0.5%	±0.5%

Pressure Measurement Resolution:	0.1	0.1 up to 199, 1 from 200 to 344
Response Time:	£ 17 seconds	
Warm-up Time:	< 1 second	
Operating Temperature:	59° F - 104° F (15° C - 40° C)	
Storage Temperature:	5° F - 140° F (-15° C - 60° C)	
Pressure:	800 - 1000 mBars	
Humidity:	0 - 95% (non-condensing)	
Power Requirements:	2-AA Alkaline batteries (2 x 1.5 volts)	
Battery Life:	³ 1,100 hours (16,500 read cycles)	
Low Battery Indication:	"Low Battery" icon displayed on LCD	
Dimensions:	3.16" x 5.10" x 1.04" (80.3 mm x 129.5 mm x 26.4 mm)	
Weight:	0.4 lbs (181 grams)	
<b>CLASSIFICATIONS</b>		
Protection against electrical shock:	Internally powered equipment	
Protection against water:	IPX1	
Mode of operation:	Continuous	
Sterilization:	See 7.1 Cleaning, page 14.	
Flammable anaesthetic mixture:	Not for use in presence of flammable anaesthetic mixtures	
Power specification:	1.8 - 3.2 V === 32 mW 10mA	

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## 9 Warranty

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### 9.1 Warranty — North America

 PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975.

This warranty is extended only to the original purchaser/user of our products.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

Invacare warrants this product to be free from defects in materials and workmanship for three years for the original purchaser. If within such warranty period any such product shall be proven to be defective, such product shall be repaired or replaced, at Invacare's option. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. Invacare's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement. For warranty service, please contact the dealer from whom you purchased your Invacare product. In the event you do not receive satisfactory warranty service, please write directly to Invacare at the address on the back page. Provide dealer's name, address, model number, date of purchase, indicate nature of the defect and, if the product is serialized, indicate the serial number.

Invacare Corporation will issue a return authorization. The defective unit or parts must be returned for warranty inspection using the serial number, when applicable, as identification within thirty (30) days of return authorization date. DO NOT return products to our factory without our prior consent. C.O.D. shipments will be refused; please prepay shipping charges.

LIMITATIONS AND EXCLUSIONS: THE WARRANTY SHALL

NOT APPLY TO PROBLEMS ARISING FROM NORMAL WEAR OR FAILURE TO ADHERE TO THE ENCLOSED INSTRUCTIONS. IN ADDITION, THE FOREGOING WARRANTY SHALL NOT APPLY TO SERIAL NUMBERED PRODUCTS IF THE SERIAL NUMBER HAS BEEN REMOVED OR DEFACED; PRODUCTS SUBJECT TO NEGLIGENCE, ACCIDENT, IMPROPER OPERATION, MAINTENANCE OR STORAGE; OR PRODUCTS MODIFIED WITHOUT INVACARE'S EXPRESS WRITTEN CONSENT INCLUDING, BUT NOT LIMITED TO: MODIFICATION THROUGH THE USE OF UNAUTHORIZED PARTS OR ATTACHMENTS; PRODUCTS DAMAGED BY REASON OF REPAIRS MADE TO ANY COMPONENT WITHOUT THE SPECIFIC CONSENT OF INVACARE; PRODUCTS DAMAGED BY CIRCUMSTANCES BEYOND INVACARE'S CONTROL; PRODUCTS REPAIRED BY ANYONE OTHER THAN AN INVACARE DEALER, SUCH EVALUATION SHALL BE SOLELY DETERMINED BY INVACARE.

THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER EXPRESS WARRANTIES WHATSOEVER, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND THE SOLE REMEDY FOR VIOLATIONS OF ANY WARRANTY WHATSOEVER, SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT PURSUANT TO THE TERMS CONTAINED HEREIN. THE APPLICATION OF ANY IMPLIED WARRANTY WHATSOEVER SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESS WARRANTY PROVIDED HEREIN. INVACARE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.

THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE/PROVINCIAL LAWS AND REQUIREMENTS.



## 9.2 Warranty — Europe

Invacare® guarantees that their products are free from defects and are fully functional. The warranty covers all faults and defects which are verifiably attributable to faulty construction, substandard materials or poor workmanship. Warranty claims against the manufacturer may only be made by the distributor and not by the user of the product.

The warranty does not cover normal wear and tear, the consequences of improper handling or damage, poor maintenance and incorrect assembly or commissioning by the purchaser or a third person or faults which are attributable to circumstances beyond our control. Wearing parts are not covered by the guarantee. The warranty is voided if modifications are made to the product which were not authorised and not performed by the specialist dealer or if inappropriate accessories or spare parts are used. The warranty does not cover consequential costs arising from the rectification of defects such as freight and travel expenses, labour costs, fees etc.

The term of the warranty is 24 month.

Furthermore, the terms and conditions are part of the general terms and conditions particular to the individual countries in which this product is sold.

Notes

Notes

EC	REP
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### **Authorized Representative**

QNET BV

Hommerterweg 286

6436 AM Amstenrade

The Netherlands



### **Manufacturer**

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1176119-A 2012-05-15



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**Yes, you can.®**