Instruction Manual

GasCheck G3



Description	Item Number
GasCheck G3	D141-32-000



WWW.**EDWARDSVACUUM**.COM

D141-32-880 Issue A Original



Declaration of Conformity

We, Edwards, Manor Royal, Crawley, West Sussex RH10 9LW, UK

declare under our sole responsibility that the product(s)

GasCheck G3

D141-32-000

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

EN61010-1:2001

EN61326:2006 (Class B Emissions) Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use. Electrical Equipment for Measurement, Control and Laboratory Use - EMC Requirements.

following the provisions of

2004/108/EC 2002/96/EC Electromagnetic Compatibility Directive. European Directive on Waste Electrical and Electronic Equipment.

L.G. Man:

Mr L Marini, Technical Manager

07-MAY-2009 EASTBOURNE

Date and Place

This product has been manufactured under a quality system registered to ISO9001

P200-03-500 Issue A



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1 INTRODUCTION

1.1 Scope

This manual provides installation, operation and maintenance instructions for the Edwards GasCheck G3. You must use the GasCheck G3 as specified in this manual.

Read this manual before you attempt to install, operate and maintain the Edwards GasCheck G3. Important safety information is highlighted as WARNING and CAUTION instructions; you must obey these instructions. The use of WARNINGS and CAUTIONS is defined below.



WARNING

Warnings are given where failure to observe the instruction could result in injury or death to people.

CAUTION

Cautions are given where failure to observe the instruction could result in damage to the equipment, associated equipment and process.

The units used throughout this manual conform to the SI international system of measurement.

The following symbols appear on the GasCheck G3:



Warning - refer to accompanying documentation.



Edwards offer European customers a recycling service.



1.2 Description

Refer to Figure 1. The GasCheck G3 is a portable, battery-powered, hand-held gas leak detector. Indications of a leak are shown on the digital display (6) and are also given by a front mounted LED flasher (5) and as audible clicks from a rear panel loudspeaker (2).

Figure 1 - The GasCheck G3



The GasCheck G3 has a convenient storage and carrying case, together with a spare battery holder, an additional long flexible probe (for leak detection in areas where access is restricted) and a box-spanner for probe changing.



INTRODUCTION

1.3 Principal of operation

The GasCheck G3 contains a heated thermistor bead that transmits heat to a block of material that remains at a constant temperature. As air is drawn through the detector chamber, a constant amount of heat passes from the bead to the block. Gases that have a different thermal conductivity to air will affect the rate at which heat transmits from the bead to the block. These rates of change are measured and can be displayed as leak rates.

1.4 Applications

You can use the GasCheck G3 on many types of applications, including those listed below.

- Quality assurance testing on manufactured component seals.
- Laboratory applications, such as the detection of leaks from gas chromatographs, from mass spectrometers, from gas cylinders and fittings.
- Industrial applications, such as the detection of leaks from gas installations, in cylinder receiving rooms, from pipeline assemblies, the detection of leaks from stored gases and the detection of vapours released from stored chemicals.
- Medical applications, such as the detection of leaks from gas bottles and pipelines and leak testing of membrane materials, glove boxes and so forth.
- Pneumatic applications, such as leak testing of pipeline joints, gaskets and so forth.



TECHNICAL DATA

General

Operating temperature range	0 to 50 °C
Storage temperature range	-25 to 70 °C
Materials of construction: GasCheck G3 Storage case	Polypropylene Polyurethane
Battery requirements	MN1500 or equivalent i.e. AA, LR6 (4 required)
Typical battery lifetime	40 hours (with backlight switched off)
Dimensions: Storage case GasCheck	420 x 320 x 97 mm See Figure 2
Mass:	
GasCheck	0.5 kg
Complete unit (in storage case)	1.6 Kg
Ingress ratings (minimum)	IP20

Figure 2 - Dimensions (mm)



* Length of short probe and nozzle. Length of long probe = 300 mm



2.2 Performance

Response time:

Detection time to T90	1 sec (short probe), 9 sec (long probe)
Clear down time	1 sec (short probe), 9 sec (long probe)
Minimum detectable leak	Refer to Table 1

Gases detected:

The GasCheck G3 can detect any gas or vapour which has a different thermal conductivity to the ambient air in which it was zeroed. The larger the difference the greater the sensitivity, so that GasCheck G3 is not highly sensitive to the gases normally found in large concentrations in the ambient air, e.g. N2 (nitrogen) and O2 (oxygen).

Note: The GasCheck G3 cannot identify different gases and it cannot differentiate between different gases.

The GasCheck G3 comes supplied with an extensive list of calibration factors for common gases (refer to Table 1). In addition, the GasCheck G3 comes with 5 generic 'gas groups' with a variation in sensitivities which can be used as a substitute for gases not listed in Table 1 (group 5 being the highest sensitivity through to group 1 being a low sensitivity); Contact Edwards for advice on which groups to use.

Table 1 - Smallest detectable leak levels

Name	Abbreviation	Minimum sensitivity cc/sec
Hydrogen	H2	7.7 E-6 cc/sec
Helium	Не	1.0 E-5 cc/sec
Refrigerant R12	R12	2.7 E-5 cc/sec
Refrigerant R1301	R1301	2.4 E-5 cc/sec
Refrigerant R134a	R134a	5.8 E-5 cc/sec
Refrigerant R22	R22	2.6 E-5 cc/sec
Refrigerant R11	R11	3.2 E-5 cc/sec
Sulphur Hexaflouride	SF6	2.2 E-5 cc/sec
Carbon dioxide	CO2	4.0 E-5 cc/sec
Methane	CH4	2.9 E-5 cc/sec
Argon	Ar	3.5 E-5 cc/sec
Oxygen	02	2.9 E-4 cc/sec
Refrigerant R502	R502	3.0 E-5 cc/sec
Refrigerant R404a	R404a	3.2 E-5 cc/sec
Refrigerant R407c	R407c	3.3 E-5 cc/sec
Refrigerant R410a	R410a	3.2 E-5 cc/sec
Refrigerant R507	R507	3.8 E-5 cc/sec



INSTALLATION

Remove all packaging materials, then open the storage case and inspect the equipment. If the storage case or any other item is damaged, notify your supplier and the carrier in writing within three days; state the Item Number and the Serial Number stamped on rear case of the GasCheck G3, together with your order number and your supplier's invoice number. Do not use the GasCheck G3 if any item is damaged.

Refer to Figure 3 and check that the storage case contains the items listed in Table 2. If any item is missing, notify your supplier in writing within three days.

Quantity	Description	Check 🗹
1	GasCheck (with short probe and nozzle fitted)	
1	Long probe	
1	Box-spanner	
1	Spare battery holder (with 4 batteries)	

Table 2 - Checklist of items in the storage case

Figure 3 - Items in the storage case



1. Long probe

- 2. Spare battery holder
- 3. GasCheck (with short probe and nozzle fitted)
- 4. Box-spanner



4 **OPERATION**



WARNING

Do not use the GasCheck G3 in safety critical applications.



WARNING

Do not use the GasCheck G3 in potentially explosive atmospheres. The GasCheck G3 is not intrinsically safe.

4.1 Getting started

Ensure that the batteries are fitted in accordance with the procedure detailed in Section 5.1.

When the GasCheck G3 is switched on a number of screens are displayed before the unit is ready to detect leaks. Refer to Figure 4.

Figure 4 - Screens displayed during GasCheck G3 startup



Displays the gas with which the GasCheck G3 has been calibrated with.



Displays the instrument serial number and the firmware version.





4.2 GasCheck G3 running screen

The GasCheck G3 displays the 'running screen' whenever the instrument is used to detect leaking gas. Figure 5 describes the information and various icons displayed.

Figure 5 - Running screen



4.3 Using the GasCheck G3

CAUTION

Ensure that the ambient air is clean and free from any tracer gas when the GasCheck G3 is switched on. Failure to do so will result in inaccurate zero readings.

CAUTION

Do not touch the probe or brass sensor housing. Any changes in heat can result in significant changes in signal causing false readings.

CAUTION

Avoid placing the instrument on wet or dirty surfaces. Blocking of the probe will result in instrument failure.

CAUTION

Do not bend the probes. The accuracy of the GasCheck G3 will be affected.



- Switch on the GasCheck G3 using the or key.
- While on the running screen, ensure that the sensitivity is set to the '×100' range as this is the most sensitive. Adjust the sensitivity using the for II keys if required.
- Hold the GasCheck G3 at 45° to the object under test and draw the probe across the test area at a rate of approximately 25mm per second. When a leak is detected, the bar graph will fill, the reading will increase and the frequency of the LED flasher will increase. The frequency of the audio indicator will also increase if this function has been switched on in the main menu.
- When a leak is detected, return the probe to the area where the leak was identified and move the probe around slowly until the exact source is identified. Hold the probe steady until the leak rate stabilizes.
- *Note:* If the GasCheck G3 bar graph fills completely or the instrument display indicates a flashing '99999,' the leak rate has exceeded the detection limit. In the event of the leak rate being too great, the sensitivity should be adjusted to a lower level using the **1** or **1** keys.
- *Note:* Variation in temperature, humidity or background gas may result in a constant offset being detected on the GasCheck G3. To reset the zero, hold the GasCheck G3 away from the source of contamination and press the zero key. Human breath contains moisture and carbon dioxide which may also affect the instruments readings.

4.4 GasCheck G3 keypad

The GasCheck G3 is operated using a 6 button tactile keypad as shown in Figure 6.

Figure 6 - GasCheck G3 keypad layout

	Button	Function
Esc 1	Esc	Escape returns the display to the previous screen. Also used to abort an adjustment. Repeated pressing of Escape will return the display to the 'Running Screen'.
		Enter is used to select functions and to accept settings after parameter has been changed.
		Up is used to scroll up through the function menu. Also used to adjust settings.
	ļ	Down is used to scroll down through the function menu. Also used to adjust settings.
	ZERO	Zero is used to zero the background reading.
	0	Power is used to switch the unit on. Press and hold the key until the bar reaches the right hand side of the screen to switch the unit off. <i>Note:</i> The unit automatically switches off if no key presses are detected for approximately 10 minutes.

Pressing the **Esc** key switches the GasCheck G3 between the 'Running screen' and the main menu. Once in the main menu screen, pressing the up and down buttons scroll between the different instrument functions. Refer to Figure 7.



OPERATION







OPERATION

Table 3 - Using the GasCheck G3 functions

Image	Image Function	
0 30%	Contrast adjusts the contrast of the GasCheck G3 LCD display. Significant variations in ambient temperature conditions may cause the display to appear too dark or feint. When selected a number appears indicating the contrast as a percentage; use the selected and selected a number display contrast to the desired level. Press the selected to exit to the main menu.	
	Backlight selects whether the backlight is on or off. In daylight the user may not be able to determine if the backlight is on or off therefore a symbol on the main running screen shows the status. Use the for a set to move the 'tick' to the desired position and then press the Esc key to return to the Main Menu.	
	<i>Note:</i> The backlight significantly reduces battery life.	
D) O M	Sound switches the audible indication of the leak rate on and off. The frequency of the signal increases as detected gas levels increase. Use the 1 or 1 key to move the 'tick' to the desired position and then press the Esc key to return to the Main Menu.	
	<i>Note:</i> An audible 'beep' can also be heard when ever the key pad is pressed, this beep cannot be switched off.	
$[\ \ \ \ \ \ \ \ \ \ \ \ \ $	Peak hold can be used to record the highest detected reading on the display until the key is pressed. Use the for the key to move the 'tick' to the desired position and then press the sec key to return to the Main Menu. When using the GasCheck G3 in peak hold mode, press the sec key to clear the held reading. The reading held on screen will be logged when the sec key is pressed.	
E 🚆 X	Calibration can be used to switch between the factory calibration setting and user defined calibration parameters. Factory calibration cannot be adjusted. User defined calibration is described in Section 5.2.	
Alkaline 🗸	Battery selection can be used to select whether the batteries fitted are Alkaline (non-rechargable) or Nickel Metal Hydride (rechargeable). Select the battery type using the 1 or 1 key to move the 'tick' to the desired position and then press the Esc key to return to the Main Menu.	
NIMH	<i>Note:</i> Failing to select the correct battery type will not damage the instrument or affect it's ability to detect gas, however it will cause the battery indicator to read incorrectly.	
1)0.00005 cc, 2)0.00075 sec 3)0.00124 m	View data allows 10 readings to be logged in internal memory and recalled later. To store a reading press the raise key while on the main running screen. When readings are stored in memory a symbol will appear on the Main running screen. When the memory is full the 'E' symbol will flash. The stored data can be viewed by scrolling through the logged readings using the formation and raise keys. To delete the stored data press and hold the raise key, the 'm' symbol will flash, continue holding the key until the data is deleted. Press the rese key to exit to the Main menu.	
ppm cc/sec √ ppm mg/m3	Units selects the leak rate units displayed on the LCD screen. Select the required units using the for key to move the 'tick' to the desired position and then press the Esc key to return to the Main Menu. The following units are available:	
ppm gr/yr	cc/sec= Cubic Centimetres per second (volumetric leak rate) ppm= Parts per million, (concentration) mg/m3 = Milligrams per metre cubed (concentration) g/yr= Grams per year (an alternative volumetric leak rate)	



QP		
Ē	Image	Function
RATIO	ppm 5 x 10E -2 0.05	Display allows the cc/sec and g/yr units to be displayed in decimal or exponential format. Select the required format using the 1 or I key to move the 'tick' to the desired position and then press the Esc key to return to the Main Menu. <i>Note:</i> Note: readings in ppm and mg/m3 can only be displayed in decimal form.)
Z	Ê He √	Gas selection allows the correct calibration curve for the gas to be detected to be selected. Refer to Table 1 for a list of gases available. Select the required format using the formation of the tick' to the desired position and then press the Esc key to return to the Main Menu.

4.5 Probe options

CAUTION

Do not remove the semi transparent probe sleeve, this ensures that the inner metal probe remains 1mm from any surface in order to prevent any accidental dirt and moisture ingress.

CAUTION

Only use the box spanner supplied with the GasCheck G3 to tighten the probes. Other tools may result in over tightening of the nut and permanent damage to the instrument.

In some circumstances, the grey probe cover may restrict access to the area to be leak tested. Refer to Figure 8. Simply remove the probe cover (A) by pulling firmly with one hand to reveal the short probe (B).

Figure 8 - Remove the probe cover



Some applications may require a longer probe in order to reach inaccessible areas. The GasCheck G3 is supplied with a 300mm 'Long probe' in the storage case. Ensure that the instrument is switched off. Access the short probe by removing the probe cover as shown in Figure 8.







Refer to Figure 9. Slide the box spanner over the short probe (A) as shown in Figure 9 (B). Unscrew the probe counterclockwise. Remove the spanner and the probe assembly (C). To replace the short probe with the long probe, perform the same sequence in reverse order.

Note: When detecting leaks with the long probe fitted, the response time of the GasCheck G3 is significantly increased. The speed at which the probe is drawn over the inspection surface should be reduced to around 10mm per second.



MAINTENANCE

Replacing/fitting batteries

Refer to Figure 10. Remove the battery cover using a finger nail or small screwdriver (A). Unclip the battery holder from the clip (B). Remove the old batteries and replace with 4 new ones (C). Reconnect the battery holder to the GasCheck G3 ensuring that the polarity is correct (D). The battery holder can then be placed back in the instrument. Ensure that wires are not trapped when refitting the battery cover.

It is recommended that after battery replacement, the GasCheck G3 is programmed with the correct battery selection (alkaline or nickel metal hydride) as described in Section 4.4. This ensures that the battery status indicator can correctly identify the remaining capacity of the battery.





5.2 Calibration

CAUTION

Calibration should only be attempted by qualified service engineers. Edwards offers a calibration facility for GasCheck G3 instruments. Contact Edwards for more details.

The GasCheck G3 is supplied with two calibration settings, factory and custom. The Factory calibration setting cannot be changed. The custom calibration allows the user to calibrate the GasCheck G3 at the local atmospheric pressure which may offer an improvement over the factory calibration.

The custom calibration procedure varies depending on whether the unit has been set to concentrations (ppm or mg/m3) or volumetric leak rates (cc/sec or g/yr).



5.3 Custom calibration (concentration units)

CAUTION

Do not bend the probes. The accuracy of the GasCheck G3 will be affected.

CAUTION

Do not pressurise the sample bag during calibration. Significant errors in the calibration will result.

Read the instructions below fully before calibrating the GasCheck G3. The following procedure should be followed if the GasCheck G3 has been set to concentrations (ppm or mg/m3).

Table 4 - Calibration of the GasCheck G3 (concentration units)

	Fill an empty (uncontaminated) sample bag with 5000ppm helium gas before starting the calibration procedure. Also remove the outer grey probe cover from the GasCheck G3.
E ¥	Select the calibration procedure on the main menu (refer to Section 4.4).
	Select custom cal by using the 1 or 1 key to move the 'tick' to ' X ' icon and press the 4 key.
Ē Î 1 5000	An option appears to allow different concentrations of helium tracer in the test gas. The GasCheck G3 can accommodate concentrations between 4900 and 5100ppm helium. Press the for a two select the correct concentration and press the select the correct concentration concentration and press the select the correct concentration
Zeroing 📓	Ensure that the GasCheck G3 is in clean air and press the La key. The Instrument will take a few seconds to zero and then the 'Ready' screen will appear.
E W (12345 F W (12345 E W (12345 Ppm hot 12345 Ppm cold 12345	Fully insert the probe into the sample bag and press the Law key. The GasCheck G3 will sequence through the cold and hot stages of calibration and will display a summary of values.
E ¥	Press the real key to return to the main calibration screen. Press the Esc key to start using the instrument or press the real key to calibrate again.



Custom calibration (cc/sec leak rate units)

CAUTION

Do not breathe on the probe. The GasCheck G3 can detect changes in humidity and carbon dioxide and significant errors in the calibration will result.

Read the instructions below fully before calibrating the GasCheck G3. The following procedure should be followed if the GasCheck G3 has been set to cc/sec .

Note: Calibration of the GasCheck G3 in cc/sec leak rate units requires the use of a portable reference leak. Contact Edwards for more details.

	Ensure the pressure on the portable reference leak is set correctly.
₽ ₽	Select the calibration procedure on the main menu (refer to Section 4.4).
	Select custom cal by using the 1 or I key to move the 'tick' to ' X ' icon and press the I key.
Zeroing 📓	Ensure that the GasCheck G3 is in clean air and press the <i>L</i> key. The Instrument will take a few seconds to zero and then the 'Ready' screen will appear.
ppm cold 12345 ppm hot 12345 ppm hot 12345 ppm hot 12345	Fully insert the probe into the portable reference leak and press the key. The GasCheck G3 will sequence through the cold and hot stages of calibration and will display a summary of values.
E ¥	Press the Law key to return to the main calibration screen. Press the Esc key to start using the instrument or press the Law key to calibrate again.

Table 5 - Calibration of the GasCheck G3 (cc/sec leak rate units)

6 STORAGE AND DISPOSAL

6.1 Storage

If you store the unit for a long time, we recommend that you remove the batteries in order to reduce the risk of damage due to battery leakage.

Refit the GasCheck G3 in its storage case and store in dry cool conditions as described in Section 2.1.

Unpack as described in Section 3.

6.2 Disposal

Dispose of the GasCheck G3, components and used batteries safely in accordance with all local and national environmental safety requirements. Alternatively, you may be able to recycle the GasCheck G3; contact Edwards or your supplier for advice (also see below).

The GasCheck G3 is within the scope of the European Directive on Waste Electrical and Electronic Equipment, 2002/ 96/EC. Edwards offer European customers a recycling service for the GasCheck G3 at the end of the product's life. Contact Edwards for advice on how to return the GasCheck G3 for recycling.



7.2

SPARES AND ACCESSORIES

7.1 Introduction

Edwards products, spares and accessories are available from Edwards companies in Belgium, Brazil, China, France, Germany, Israel, Italy, Japan, Korea, Singapore, United Kingdom, U.S.A and a world-wide network of distributors. The majority of these centres employ Service Engineers who have undergone comprehensive Edwards training courses.

Order spare parts and accessories from the nearest Edwards company or distributor. When ordering, state for each part required:

- Serial number stamped on the rear of your GasCheck G3
- Item Number and description of part

Spares and accessories

Table 6 - GasCheck G3 spares and accessories

Spare	Item Number
Long probe	D141-28-802
Short probe	D141-28-801
Replacement battery holder	D141-30-802
Nozzle	D141-30-800

7.3 Calibration

Contact your supplier for details of the calibration service available, which includes the issue of a traceable certificate to National Standards.



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Return of Edwards Equipment - Procedure

INTRODUCTION

Before returning your equipment, you must warn Edwards if substances you used (and produced) in the equipment can be hazardous. This information is fundamental to the safety of our Service Centre employees and will determine the procedures employed to service your equipment.

Complete the Declaration (HS2) and send it to Edwards before you dispatch the equipment. It is important to note that this declaration is for Edwards internal use only, and has no relationship to local, national or international transportation safety or environmental requirements. As the person offering the equipment for shipment, it is your responsibility to ensure compliance with applicable laws.

GUIDELINES

- Equipment is 'uncontaminated' if it has not been used, or if it has only been used with substances that are not hazardous. Your equipment is 'contaminated' if it has been used with any substances classified as hazardous under EU Directive 67/548/EEC (as amended) or OSHA Occupational Safety (29 CFR 1910).
- If your equipment has been used with radioactive substances, biological or infectious agents, mercury, polychlorinated biphenyls (PCB's), dioxins or sodium azide, you must decontaminate it before you return it to Edwards. You must send independent proof of decontamination (for example a certificate of analysis) to Edwards with the Declaration (HS2). Phone Edwards for advice.
- If your equipment is contaminated, you must either:
 - Remove all traces of contamination (to the satisfaction of laws governing the transportation of dangerous/hazardous substances).
 - Or, properly classify the hazard, mark, manifest and ship the equipment in accordance with applicable laws governing the shipment of hazardous materials.

Note: Some contaminated equipment may not be suitable for airfreight.

PROCEDURE

- 1. Contact Edwards and obtain a Return Authorisation Number for your equipment.
- 2. Complete the Return of Edwards Equipment Declaration (HS2).
- 3. If the equipment is contaminated, you must contact your transporter to ensure that you properly classify the hazard, mark, manifest and ship the equipment, in accordance with applicable laws governing the shipment of contaminated/hazardous materials. As the person offering the equipment for shipment, it is your responsibility to ensure compliance with applicable law. Note: Equipment contaminated with some hazardous materials, such as semiconductor by-products, may not be suitable for airfreight contact your transporter for advice.
- 4. Remove all traces of hazardous gases: pass an inert gas through the equipment and any accessories that will be returned to Edwards. Where possible, drain all fluids and lubricants from the equipment and its accessories.
- 5. Seal up all of the equipment's inlets and outlets (including those where accessories were attached) with blanking flanges or, for uncontaminated product, with heavy gauge tape.
- 6. Seal equipment in a thick polythene/polyethylene bag or sheet.
- 7. If the equipment is large, strap the equipment and its accessories to a wooden pallet. If the equipment is too small to be strapped to a pallet, pack it in a suitable strong box.
- 8. E-mail via scan, fax or post a copy of the original with signature of the Declaration (HS2) to Edwards. The Declaration must arrive before the equipment.
- 9. Give a copy of the Declaration (HS2) to the transporter. You must tell your transporter if the
 - equipment is contaminated.
- 10. Seal the original Declaration in a suitable envelope: attach the envelope securely to the outside of the equipment package, in a clear weatherproof bag.

WRITE YOUR RETURN AUTHORISATION NUMBER CLEARLY ON THE OUTSIDE OF THE ENVELOPE OR ON THE OUTSIDE OF THE EQUIPMENT PACKAGE.



Form HS2

Return of Edwards Equipment - Declaration

Return Authorisation Number:

- Know about <u>all</u> of the substances which have been used and produced in the equipment before you complete this Declaration
- Read the Return of Edwards Equipment Procedure (HS1) before you complete this Declaration
- Contact Edwards to obtain a Return Authorisation Number and to obtain advice if you have any questions
- Send this form to Edwards before you return your equipment as per the procedure in HS1

	SEC	FION 1:	EQUIPMENT			
Manufacturer's Product Name			IF APPLICABLE:			
Manufacturer's Part Number			Tool Reference Number			
Manufacturer's Serial Number			Process			
Has the equipment been used, teste	d or operated?		Failure Date			
YES 🔲 Go to Section 2 NO 🛄	Go to Section 4		Serial Number of			
			Replacement Equipm	nent		
SECTION 2	2: SUBSTANC	es in co	DNTACT WITH THE EQ	UIPMENT		
Are any substances used or produced i	in the equipment	:	Note 1: Edwards will not	accept delivery of any equipment		
			infectious agents mercur	v PCB's dioxins or sodium azide		
 Radioactive, biological or infection poly chlorinated biphenyls (PCBs) 	Jus agents, mercu dioxins or	ury,	unless you:			
sodium azide? (if YES, see Note 1)) YES 🗋 N	0 🔲	Decontaminate the equ	uipment		
Hazardous to human	_		Provide proof of decor	tamination		
health and safety?	YES 🛄 N	0 🔲	YOU MUST CONTACT EDWA	RDS FOR ADVICE BEFORE YOU RETURN		
			JUCH EQUIPMENT			
SECTION 3: 11	ST OF SUBST	ANCES I	N CONTACT WITH THE	FOUIPMENT		
Substance name	Symbol	Precauti use p	ons required (for example, Action required after a spill, leak or exposure			
		•	· · · ·			
	SECTION	4: RETU	IRN INFORMATION			
Reason for return and symptoms of	f malfunction:					
If you have a warranty claim:	• who did you	buy the ed	quipment from?			
	• give the supp	olier's invo	pice number			
	SECT	ion 5: [DECLARATION			
Print your name:		Print	your job title:			
Print your organisation:						
Print your address:						
Telephone number:		Date of e	quipment delivery:			
I have made reasonable enquiry and	I have supplied	accurate	information in this Declara	tion. I have not withheld ar		
information, and I have followed th	e Return ofedwa	ii us Equip	ment - Procedure (HST).	Note: Please print out this		
Signed		Dato		form, sign it and return the		
Signed			signed form as hard copy.			

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