OPERATING MANUAL

English

Overhead Stirrer

WB2000-C





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Congratulations!

You have made an excellent choice.

WIGGENS thanks you for the trust you have placed in us.

This operating manual has been designed to help you gain an understanding of the operation and possible applications of our instruments. For optimal utilization of all functions, we recommend that you thoroughly study this manual prior to beginning operation.

Declaration of conformity EN

We declare under our sole responsibility that this product corresponds to the directives and conforms to the following standards or normative documents: EN ISO

The WIGGENS Quality Management System



ISO 9001 Certificate Registration No. 01 100084841

Unpacking and Inspecting

Please unpack the device carefully. Inspect them for possible damage. In the case of any damage a damage report should be requested immediately. These instructions must be followed fully for us to guarantee our full support of your claim for protecting against loss from concealed damage. The form required for filing such a claim will be provided by the carrier.

Printed in China

Changes without prior notification reserved

Important: keep operating manual for future use

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1. Intended Use

Fulfilling its principle task of a reliable and accurate stirring process, the Overhead Stirrer WB2000-C also incorporates a remote control function by connecting the unit to a computer via an RS-232 cable. It is also equipped with digital analog input/output ports and a foot pedal port for various applications. This allows for wide applications to stir, such as, stirring in reaction systems, stirring in processes which need remote control, or stirring processes that are linked to other equipment. It is also suitable for low speed stirring and very sensitive stirring processes.

The brushless DC motor provides stable and accurate stirring. It is easy to use and suitable for small batches, long-term experiments and programmable operations. Voltage fluctuations are not a concern due to the universal power supply which offers 100-240 volts.

Furthermore, the digital display, sealed housing and overload protection are standard WIGGENS features!

2. Operator Responsibility

Use

For mixing/stirring liquids by various stirring tools.

Range of use (indoor use only)

- Laboratories
- Pharmacies
- Schools
- Universities
- This instrument is suitable for use in all areas except:
- Residential areas
- Areas that are connected directly to a low-voltage supply network that also supplies Residential areas
- The safety of the user cannot be guaranteed:
- If the instrument is operated with accessories that are not supplied or recommended by the manufacturer
- If the instrument is operated improperly or contrary to the manufacture's specifications
- If the instrument or the printed circuit board are modified by third parties.

The products of WIGGENS ensure safe operation when installed, operated, and maintained according to common safety regulations. This section explains the potential dangers that may arise when operating the instrument and also specifies the most important safety precautions to preclude these dangers as far as possible.

- The operator is responsible for the qualification of the personnel operating the instrument.
- The personnel operating the instrument should be regularly instructed about the dangers involved with their job activities as well as measures to avert these dangers.
- Make sure all persons tasked with operating, installing, and maintaining the instrument have read and understand the safety information and operating instructions.

- When using hazardous materials or materials that could become hazardous, the instrument may be operated only by persons who are absolutely familiar with these materials and the instrument. These persons must be fully aware of possible risks.
- Only qualified personnel are authorized to perform configuration, installation, maintenance and repairs of the instrument.
- Routine operation can also be carried out by untrained personnel who should however be instructed by trained personnel.

If you have any questions concerning the operation of your instrument or the information in this manual, please contact us!

2.1. Disposal



At the end of its service life the instrument is to be disposed of in accordance with the local regulations specified for the disposal of electronic industry waste in an environmentally friendly manner.

2.2. CE Conformity

	The products described in the operating instructions conform to the
	requirements of the following European guidelines:
	Low voltage regulations with respect to legal harmonization of the
CE	member countries concerning electric devices for use within certain
	voltage limits.
	EMC guideline with respect to legal harmonization of the member
	countries concerning electromagnetic compatibility.
APPROVALS	Certificate Registration No:E8A 16 01 91548 003
European	Tested according to :EN61326-1:2013
1	

2.3. Technical Specifications

Model	WB2000-C	
Speed Range	20-2000 rpm	
Display / Control Mode	LCD Digital Display / On-Touch Control	
LCD Display Accuracy	±10 rpm or 1% of reading, 4 digit display	
Maximum Torque	70 N-cm, (100 in-oz)	
Maximum Viscosity	20000 mPa-s (20000cps)	
Maximum Capacity	20L (6.6 US Gallons, 5.3 UK Gallons)	
Chuck range max.diameter(mm)	10	
Clockwise and Counter-Clockwise Mixing	Yes	
Input / Output Power	AC 100-240 V, 50/60 Hz, 70VA (the supplied WIGGENS power supply must be used)	
Output Voltage From Power Supply to Stirrer	DC 24V	
Output Current from Power Supply to Stirrer	3.0 A	
Mechanical Output Power	1/15 hp, 50 W, (Brushless DC Motor)	
Weight Stirrer Power Supply	3.5kg (8 lbs) 0.5kg (1 lb)	
Combined Housing	Splash Proof	
Operation Panel	Waterproof, Chemical Resistant Polyester	
Power Cord Lengths	160 cm from Stirrer to Power Supply (DC) 150 cm from Power Supply to Wall (AC)	
Adjustable Chuck	Fits Onto Output Shaft Of Stirrer, Adjustable up to 10 mm	
Analog Input	0-20 mA and 0-10 V	
Analog Output	0-5 V	
RS232 Output	Available	
Foot Pedal Output	Available	
Order No.	100500	

All measurements have been carried out at the stated voltage, frequency, and an ambient temperature of 25°C.

Technical changes without prior notification reserved.



WIGGENS Order Numbers consist of the Basic Order Number (BON) and the Order Number Addition (ONA) which explains different characteristics of the product that can vary from country to country. Order Numbers as stated on the product label and box label are stated as Full Order Numbers (FON), consisting of the BON followed by the ONA. For a full explanation of the ONA of your product, please ask your local WIGGENS support or refer to the Order Number Guide in the *WIGGENS* General Catalog.

3. Safety Instructions

3.1. Explanation of Safety Notes

In addition to the safety warnings listed, warnings are posted throughout the operating manual. These warnings are designated by an exclamation mark inside an equilateral triangle. "Warning of a dangerous situation (Attention! Please follow the documentation)."

Symbol	Additional term / Description
Warning signs	The danger is classified using a signal word. Read and follow these
	important instructions for averting dangers.
\sim	Warning !
	Describes a possibly highly dangerous situation. If these instructions
	are not followed, serious injury and danger to life could result.
	Caution!
	Describes a possibly dangerous situation. If this is not avoided, slight
	or minor injuries could result. A warning of possible property damage
	may also be contained in the text.
	Notice !
	Describes a possibly harmful situation. If this is not avoided, the
	product or anything in its surroundings can be damaged.
	Note!
5	Draws attention to something special.
	Important!
\mathbf{U}	Indicates usage tips and other useful information.
3.2. For y	our protection

- Make sure you read and understand all instructions and safety precautions listed in this manual before installing or operating your instrument.
- Keep the operation instructions in a place where they can be accessed by everyone
- **Marning!** Because the options for combining products, tools, stirring vessel,

experiment and medium are nearly endless, user safety cannot be ensured simply with design requirements on the part of the product. For this reason, it may become necessary for users to take other precautionary safety measures. For example, glass device or other stirring vessels that are sensitive to mechanical stress can be damaged or shattered by an imbalance, increasing the speed too quickly or too little distance between the stirring element and the stirring vessel. Users can suffer serious injury from glass breakage or from the freely rotating stirring element.

- Uncontrolled reactions can be triggered by mixing the heated material insufficiently or by the energy generated by selecting a speed that is too high. In case of these and other increased operational hazards, users must take additional appropriate safety precautions (e.g. shatter protection). In any case, when using critical or hazardous materials in your processes, *WIGGENS* recommends to use additional appropriate measures to ensure safety in the experiment. For example, users can implement measures that inhibit fire or explosions or comprehensive monitoring equipment.
- Make sure the product is checked for proper condition regularly (depending on the conditions of use). Regularly check (at least every 2 months) the proper condition of the mandatory, warning, prohibition and safety labels.
- Connect the instrument to a power socket with earthing contact (PE-protective earth)!
- The power supply plug serves as a safe disconnecting device from the line and must always be easily accessible.
- Do not stay in the area below the instrument.
- Never operate damaged equipment.
- **Warning!** Never operate instruments with damaged mains power cables.
- Observe all warning labels.
- Never remove warning labels.
- Repairs are to be carried out only by qualified service personnel
- Always turn off the instrument and disconnect the mains cable from the power source before performing any service or maintenance procedures, or before moving the instrument.
- Warning! This is not an explosion proof stirrer. Do not use with any highly

flammable or explosive materials.

- Warning! The stirrer must be securely fixed to a stable support, mounted to a stand using a heavy duty clamp, which must be provided by *WIGGENS*. If other stands or clamps are used, ensure that they are stable so that it will not fall down.
- Warning! Spinning paddles or impellers can cause serious personal injuries. Operators must take extreme care and good judgment when mixing at any speed. All mixing paddles and impellers must be in good condition with straight shafts. If the stirrer vibrates at high speed, check the paddle shaft for damage and repair or replace it.
- Also, extreme care must be taken when mixing chemicals, to ensure that no chemicals are splashed outside the mixing vessel, and when changing to faster mixing speeds.
- Warning! Ensure that the mixing impeller does not contact the containment vessel.
- Keep the unit dry and do not immerse any part, except the mixing paddle into any liquids.
- Protect yourself from splashes.
- Warning! Ensure that no loose clothing, jewelry, or hairs are entangled in any rotating parts. A fast spinning chuck can cause injury to the operator.
- Only process media that will not react dangerously to the extra energy produced through processing. This also applies to any extra energy produced in other ways, e.g. through light irradiation.
- Process pathogenic materials only in closed vessels under a suitable fume hood.
- When in an emergency, disconnect the main power plug.
- The voltage stated on the type plate must correspond to the mains voltage.
- Please observe the permitted speed for the stirring element. Never set higher speed.
- Warning! The operation of a free rotating shaft end is dangerous. Therefore, for safety reason, only insert through the stirring tool over the upper edge of housing at standstill.
- Warning! Wear your personal protective equipment in accordance with the

hazard category of the medium to be processed, otherwise there is a risk of:

- splashing of liquids
- Projectile parts
- Body parts, hair, clothing and jewelry getting caught.
- Warning!
 Beware of the risk of:
 - Flammable materials
 - Glass breakage as a result of mechanical shaking power.
- Reduce the speed if:
 - The medium splashes out of the vessel because the speed is too high
 - The instrument is not running smoothly
 - The instrument begins to move around because of dynamic forces
 - An error occurs.
- **Warning!** Do not touch rotating parts during operation!
- Warning! There may be electrostatic activity between the medium and the output shaft which could cause a direct danger.
- After an interruption in the power supply or a mechanical interruption during a stirring process, the unit does not restart automatically.
- It is important to note that the surfaces of the motor (cooling fins) and certain parts of the bearing may get very hot during operation.
- Avoid knocking and impacting on the lower end of the shaft and the chuck gear teeth.
 Even minor, invisible damage can lead to imbalance and uneven shaft action
- Imbalance of the output shaft, the chuck and in particular the stirring tools can lead to uncontrolled resonant vibrational behavior of the instrument and the whole assembly. Glass apparatus and stirrer containers can be damaged or shattered by this. It can cause injury to the operator, also can damage the rotating stirring tool. In this case exchange the stirring tool for one without imbalance or remedy the cause of the imbalance. If there is still imbalance, return it to the dealer or the manufacturer along with a description of the fault.
- If the instrument is operated too long in overload or if the ambient temperature is too high, the instrument switches off permanently.

3.3. For protection of the equipment

All operators must be familiar with the stirrer and should read this entire manual.

- You have received a product designed for industrial and experimental use. Nevertheless, avoid strikes to the housing, vibrations, damage to the operating-element panel, and contamination.
- Make sure that the mains power supply has low impedance to avoid any negative effects on instruments being operated on the same mains.
- Do not expose the unit to sunlight
- Sudden drops may cause damage in the interior of the instrument.
- Transport the instrument with care.
- Press the power button to interrupt the stirrer, rather than disconnect the main power plug directly.

4. Operating Procedures

4.1. Environmental Operating Conditions

The overhead stirrer must operate in the following conditions:

- Indoors
- Altitudes up to 2000 meters
- Temperatures from +5°C to +40°C
- Maximum relative humidity 80% for temperatures up to +31°C, linear decrease down to 50% relative humidity at a temperature of +40°C
- Max. mains fluctuation of ±10 % are permissible
- Protection class according to EN 60 529: IP31
- The unit corresponds to Class I
- Overvoltage category II

4.2. Installation

Place the stirrer on a stable, flat surface and proper environment for operation.



Note!

The hollow shaft allows the impeller shaft to come through the top of the stirrer if necessary!

4.2.1. Installing the Overhead Stirrer

Installation Steps



4.2.2. Impeller Attachment

- S Loosen the clamp connected to the support bar and raise the stirring unit to the far end of the support bar
- S Tighten the clamp again
- S Use the chuck key to open up the chuck inlet
- Insert the impeller shaft into the open chuck and adjust the impeller to the desired height. The hollow housing allows the impeller shaft to come through the top of the stirrer if necessary.
- S Tighten the chuck manually until the impeller shaft hangs loosely in the chuck
- Solution Use the chuck key to gradually tighten the chuck from all sides and make sure that the impeller is as vertical as possible.
- If necessary adjust the height of the stirrer again by loosening the clamp connected to the support bar. Make sure to tighten the clamp as much as possible after adjusting the height and before operating the unit.

Caution:

- Operating a freely rotating impeller shaft through the top of the stirrer is not safe. Do not allow the impeller shaft to touch or extend through the rubber gasket while the motor is powered on, the gasket is for sealing purposes only. Tighten the chucks outer ring by hand and then fasten with the chuck key.
- If the chuck is removed without the supplier's permission, any damage will be excluded from the warranty.

4.2.3. The dimensions of the Overhead stirrer (WB2000-C)



4.3. Operation

4.3.1. Operation of the WB2000-C



1. Housing	2. On / Off-Button	3. Increase Button
4. Decrease Button	5. Chuck	6. Reverse Button
7. Menu Button	8. LED Power Light	9. LCD Display

4.3.2. Functional Elements

On/Off	On / Off – Button Start or stop the stirrer.			
Menu	Menu Button Select between the speed setting, and the control mode setting			
	Increase Button			
	When in speed setting mode, press the button to set the speed rate, press to increase 10 rpm every time, press and hold to increase the value faster.			
	When in control mode setting, press the button to select between the following modes:			
	 LOCAL: Direct control via the on-touch buttons. ANA V: External control via analog voltage. The voltage range permissible is 0~10V (speed can't be set by the keypad in this mode) ANA I: External control via analog current. The current range permissible is 0~20mA (speed can't be set by the keypad in this mode) FOOT: Control via foot pedal (speed can't be set by the keypad in this mode) 			
	REMOTE: Remote control via USB interface			

ţ	Decrease Button When in the LOCAL mode, press the button to set the rate, press to decrease 10RPM every time, press and hold to decrease the value faster. When in control mode setting, press the button to select between the modes mentioned under the Increase Button When in timer setting, press the button to select between the two modes mentioned under the Increase Button
Rev	Reverse Button Press this button to change the stirring direction. This can only be done when the stirrer is in off-mode. The stirring direction can be monitored in the LCD display: ACW for clockwise stirring and CCW for counter-clockwise stirring.

Caution:



4.3.3. Safety and Servo Control

The WB2000-C stirrer employs a memory function. When switching on and starting the stirrer, the speed used is the same as set at the last operation.

The WB2000-C incorporates a "soft start" function. When starting the stirrer, increasing or decreasing the stirring speed, or using the reverse function, the speed ramps smoothly from the current speed to the new set speed. This has the advantage of protecting fragile solutions from a abrupt speed increase, and prevents the stirrer from damage.

The WB2000-C incorporates feedback control. When the torque changes, e.g. by a

change of viscosity in the solution, the stirrer motor adjusts the feedback accordingly in order to maintain the current speed.



Besides the press-button control, the WB2000-C can also be remotely controlled. For remote control there are two operating methods:

1. Analog Input / Output Control:

Use a 0-20mA or 0-10V signal to drive the stirrer. Please refer to the pin assignment as following:



- 1: Input 0-20mA (0-2000 RPM)
- 2: Input 0-10V (0-2000 RPM)
- 3: Input ground
- 4: Output 0-5V (0-2000 RPM)
- 5: Input foot pedal
- 6: Output ground

2. RS-232 Control:

The stirrer can be controlled by connecting a computer via the RS-232 cable. Free software is provided for RS-232. Please refer to the software operating instruction for the correct application.



- 1: TXD Sending
- 2: RXD Receiving
- 3: GND Ground signal

CAUTION:



WB2000-C adopts servo motor control and soft starting safety control. Even in heavy load situations it can still be able to maintain the set speed. When the instrument is started, the last used speed will be displayed on the LCD screen.

The stirring direction can only be changed when the stirring function is turned off.

If the torque is too heavy, it is necessary to reduce the weight of the load and to restart the stirrer.

5. Cleaning and Maintenance

5.1. Routine Cleaning

The device is maintenance-free.

Cleaning



For cleaning disconnect the main plug.

Only use cleansing agents which have been recommended by WIGGENS

Use to remove:

Dyes	isopropyl alcohol
Construction materials	isopropyl alcohol/water containing surfactant
Cosmetics	isopropyl alcohol/water containing surfactant
Foodstuffs	water containing surfactant
Fuels	water containing surfactant

- Do not allow moisture to get into the appliance when cleaning.
- Wear protective gloves when cleaning the devices.
- For materials which are not listed, please request information from WIGGENS application support.
- Electrical instruments may not be placed in the cleansing agent for the purpose of cleaning.

- Before using another than the recommended method for cleaning or decontamination, the user must ascertain with WIGGENS that this method does not destroy the instrument.

Note:

Do not use chlorine bleach, chlorine-based cleanser, abrasives, ammonia, steel wool or scouring pads with metal content or similar harsh solvents or abrasives. These may damage the surface of the instrument.

5.2. Maintenance

Do not attempt to service or repair a WIGGENS overhead stirrer. If the overhead stirrer housing is opened the warranty becomes void. Contact WIGGENS for return authorization and return instructions.

Ordering spare parts

When ordering spare parts, please give:

- Machine type
- Manufacturing number, see type plate
- Item number and designation of the spare part.

Repair

Please only send devices in for repair that have been cleaned and are free of materials which might present health hazards. For this, use the "certificate of compliance" form which you can obtain from WIGGENS. If your appliance requires repair, return it in its original packaging. Storage packaging is not sufficient when sending the device - also use appropriate transport packaging.

6. Transport and Storage

- Clean the overhead stirrer so that it is free from any materials which may be harmful to the health. Provide a material safety data sheet where appropriate.
- Place the overhead stirrer unit and its parts into the original packing or a container

with necessary protection to prevent damage during transport. Seal the original packing or container with packing tape.

• Store the packed unit in a dry place.



CAUTION:

Failure to clean, maintenance, and handle the stirrer as outlined can lead to damages or be harmful to the health.

7. Accessories and Spare Parts

Rotor Ø((mm) Shaft Ø(mm) Length(mm) Model Oder No. **Pivoting Blade** Impeller Blade Heigh:18 mm Straight 2-Blade Impeller Blade Heigh:12 mm

7.1 Stainless Steel Impellers

Straight 4-Blade	50	8	500	9055
Impeller	100	10	300	9056
Blade Heigh:12 mm	100	10	400	9057
	100	10	500	9058
	50	8	300	9403
	50	8	400	9404
	50	8	500	9405
	100	10	300	9406
**************************************	100	10	400	9407
3-Hole Blade Impeller	100	10	500	9408
	50	8	300	9503
	50	8	400	9504
	50	8	500	9503
	100	10	300	9506
	100	10	400	9507
6-Hole Blade Impeller	100	10	500	9508
	50	8	300	9003
	50	8	400	9004
	50	8	500	9005
	100	8	300	9009
	100	8	400	9010
Pitched Leaf Impeller	100	8	500	9011
and Pitched Blade	70	8	500	9012
Impeller	100	10	650	9013
-	100	10	800	9014
	50	8	300	9103

Propeller stirrers, 3 _x	50	8	400	9104
blades	50	8	500	9105
-	70	8	300	9109
-	70	8	400	9110
	70	8	500	9111
-	100	10	300	9112
	100	10	400	9113
-	100	10	500	9114
-	70	10	650	9111
-	100	10	800	9116
	90/15	8	300	9209
	90/15	8	400	9210
	90/15	8	500	9211
	90/15	10	300	9212
	90/15	10	400	9213
Centrifugal Impeller	90/15	10	500	9214
Blade Heigh:10mm	90/15	10	650	9215
	70	8	500	9610
	90	10	650	9611
	140	10	800	9612
Anchor Impeller				
	45	7	400	9025
	65	7	400	9026
	45	8	400	9025A
Turbine Impeller	65	8	400	9026A
	50	7	400	9030

Radial Flow Impeller	50		400	0001
	50	8	400	9031
	80	10	500	9020
	120	10	500	9021
Multi-Purpose Impeller				

7.2 Stirring Seals

Model	Shaft Ø mm)	'A'Core	Height(mm) excl.joint	Guide Ø (mm)	Oder No.
	6	19/22	96	45	5.101.1.7
	6	24/40	96	45	5.102.7
	8	24/40	96	45	5.104.7
	10	24/40	96	45	5.105.7
	10	29/42	96	45	5.106.7
	12	29/42	110	55	5.108.7

7.3 Stand

Description	Model	Height(mm)
	WF11	550
6-3-4	WF12	750

Dimensions (W x D): 315X200mm		
Max. load: 5 kg		
	WF13	950
	WF11-D	550
11		
40000	WF12-D	750
	WF13-D	950
Dimensions (W x D): 315X200mm		
	WH11-S	550
6-7-4	WH12-S	750
Material: Aluminum, stainless steel	WH13-S	950
Dimensions (W x D): 340X300mm		
	WH11-D	550
	WH12-D	750

Material: Aluminum, stainless steel	WH13-D	950
Dimensions (W x D): 340X300mm		

	For more information about Accessories please contact your local
18	supplier

CAUTION!
For safety and guarantee reasons only original accessory parts are to
be used!
F

8. Service

8.1. Trouble-Shooting

Cause	Remedy
	1. Ensure that the mains electricity plug is plugged into a
After switching on the	working socket outlet and check if the main switch is in
unit, the display shows	the "on" position
no light and the stirrer	2. Use a circuit meter to check if there is DC24V electricity
does not react to any	running from the adapter output port
input	3. If the malfunction cannot be determined this way, please
	contact the WIGGENS support
After switching on the	
unit, the display lights	1 Please contact the WIGGENS support
up but shows the error	1. Please contact the WIGGENS support
message "OH"	



WIGGENS reserves the right to carry out technical modifications with repairs for providing improved performance of the instrument.

8.2. Warranty

In accordance with WIGGENS warranty conditions, the warranty period is 24 months. For claims under the warranty please contact your local dealer. You may also send the machine direct to our works, enclosing the delivery invoice and giving reasons for the claim. You will be liable for freight costs. The warranty does not cover wearing parts, nor does it apply to faults resulting from improper use or insufficient care and maintenance contrary to the instructions in this operating manual.

WIGGENS reserves the right to decide the validity of any warranty claim. In case of faults arising either due to faulty materials or workmanship, parts will be repaired or replaced free of charge.

Any other compensation claims, such as consumables, damages caused by corrosion or accidental breakage, are excluded from this guarantee.

This warranty may only be altered by a specifically published amendment. No individual has authorization to alter the provisions of this warranty policy or its amendments.

8.3. Contact/Technical Service

If your device is not working properly:

⇒ Please inform *WIGGENS* Instruments by using our contact information.

You have contacted WIGGENS Instruments?

- ➡ Copy and complete the Conformation of condition of unit from these operating instructions.
- ➡ Please repack the device appropriately for transport and send to WIGGENS Instruments together with the Confirmation of condition of unit.

Our contact details

Room 303, Hall C, Office Building M8, No. 1 Jiuxianqiao East Road, Chaoyang District,

Beijing 100015, China Tel: +86 400-809-2068 Fax:+86 400-809-2068-112 info@ wiggens.com service@wiggens.com www.wiggens.com

Confirmation of condition of unit

In the case of repair, copy and complete the Conformation of condition of unit and send it to WIGGENS Instruments.

1.	Details about the un	it		
	Product number			
	Serial number			
	Reason for repair			
2.	Has the device been	cleaned, deconta	minated/steriliz	ed?
		Yes	No	
3.	Is the unit in a cond staff of our service of		not represent a	any health threats for the
		Yes	No	
				ch substances has the uni contact with?
4.	Legally binding decl	aration		
		WIGGENS I		of being legally liable to any damages arising from rmation.
_ <u>D</u>	late	Signa	ature	
Сс	ompany stamp			
Ple	ease note	••	•	r the return of the goods ir le for the mode of transport
Se	ender information			
		Name, first name Company Department, resear Zip code, city Country Phone	ch group Street	
E-	mail			