

# 7SG14 Duobias M

Transformer Protection

## Document Release History

This document is issue 2010/02. The list of revisions up to and including this issue is:  
Pre release

Revision	Date	Change
	2010/02	Document reformat due to rebrand
R1	05/10/2006	Revision History Added. Reformatted to match other manual sections.

## Software Revision History

--	--	--

The copyright and other intellectual property rights in this document, and in any model or article produced from it (and including any registered or unregistered design rights) are the property of Siemens Protection Devices Limited. No part of this document shall be reproduced or modified or stored in another form, in any data retrieval system, without the permission of Siemens Protection Devices Limited, nor shall any model or article be reproduced from this document unless Siemens Protection Devices Limited consent.

While the information and guidance given in this document is believed to be correct, no liability shall be accepted for any loss or damage caused by any error or omission, whether such error or omission is the result of negligence or any other cause. Any and all such liability is disclaimed.

# 1 Maintenance

Duobias-M is a maintenance free relay with no user serviceable parts. It includes an internal monitoring programme and provision for Protection Inoperative alarm. In the event of an internal fault the LCD will display fault messages, these features effectively mean that no annual maintenance is required on the relay.

It is recommended to make a periodic test of the operation of all the equipment. It is suggested that it should include, but not necessarily be limited to, the following.

- General check of the connections (every year)
- Insulation resistance check (every 5 years)
- Inspect the trip circuit fuse links, if necessary renew them (every year)
- Operate relays that trip and see that the trip and intertrip circuits are energised (every 2 years)
- Check that the Duobias-M LED's operate (every year)
- Secondary injection tests of operation from the HV and LV sides (every 5 years)

To confirm that the relay is operating correctly a record of the relay currents at the metering points at the fault setting may be used for reference in future maintenance tests.

If the protection includes neutral current transformers check the continuity of these and their pilots.

A balance test using load current can be carried out at routine intervals.

## 2 Defect Report Form

Form sheet for repairs and returned goods (fields marked with \* are mandatory fields)

**Sender:**

* <b>Name, first name:</b>	Complete phone number (incl. country code):	Complete fax number (incl. country code):
Email address:	* <b>Org-ID and GBK reference:</b>	* <b>AWV:</b>

\* **Order-/ reference-no (choosing at least 1 option):**

Order-no for repair:	order-/ delivery note-no for return of commission failure:	Beginning order-no for credit note demand:
----------------------	--	--

**Information concerning the product and its use:**

* <b>Order Code (MLFB):</b>	Firm ware version: V	* <b>Serial number:</b>	
* <b>Customer:</b>	Product was in use approximately since:	Station/project:	Hotline Input no.:
Customer original purchase order number:	Delivery note number with position number:	Manufacturer:	

\* **Type of order (choosing at least 1 option):**

<input type="checkbox"/> Repair	<input type="checkbox"/> Return of commission failure	<input type="checkbox"/> Credit Note
<input type="checkbox"/> Upgrade / Modification to ...	<input type="checkbox"/> Warranty repair	<input type="checkbox"/> Quotation (not repair V4 and current products! See prices in PMD)
	<input type="checkbox"/> For collection	

**Type of failure:**

<input type="checkbox"/> Device or module does not start up	<input type="checkbox"/> Mechanical problem	<input type="checkbox"/> Overload
<input type="checkbox"/> Sporadic failure	<input type="checkbox"/> Knock sensitive	<input type="checkbox"/> Transport damage
<input type="checkbox"/> Permanent failure	<input type="checkbox"/> Temperature caused failure	<input type="checkbox"/> Failure after ca <input type="text"/> hrs in use
<input type="checkbox"/> Repeated breakdown	<input type="checkbox"/> Failure after firmware update	

**Error description:**

<input type="checkbox"/> Display message: (use separated sheet for more info)																
<input type="checkbox"/> Active LED messages:																
<input type="checkbox"/> Faulty Interface(s), which?	<input type="checkbox"/> Wrong measured value(s), which?	<input type="checkbox"/> Faulty input(s)/output(s), which?														

\* **Detailed error description (please refer to other error reports or documentation if possible):**

\* **Shall a firmware update be made during repair or mechanical upgrade of protective relays? (choosing at least 1 option)**

Yes, to most recent version     
  No     
  Yes, actual parameters must be reusable

**repair report:**

Yes, standard report (free of charge)     
  Yes, detailed report (charge: 400EUR)

**Shipping address of the repaired/upgraded product:**

Company, department \_\_\_\_\_

Name, first name \_\_\_\_\_

Street, number \_\_\_\_\_

Postcode, city, country \_\_\_\_\_

**Date, Signature**

Please contact the Siemens representative office in your country to obtain return instructions.

E D EA MF TCC 6 release from 11/2009