# 7SG163 Ohmega 300 Series

7SG163 Protection Relay

#### **Document Release History**

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

2010/02	Document reformat due to rebrand
3	Amended
2	Amended
1	First Issue

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#### 1 Maintenance Instructions

The relay is a maintenance free device, with no user serviceable parts. During the life of the relay it should be checked for operation during the normal maintenance period for the site on which the product is installed. It is recommended the following tests are carried out:

- 1 Visual inspection of the metering display (every year)
- 2 Operation of output contacts (every 2 years)
- 3 Secondary injection of each element (every 5 years)

## 2 Troubleshooting Guide

The following table describes the action of the relay under various conditions, and suggested remedial actions when problems are encountered.

If problems are being experienced and the suggested action does not work, or the problem is not detailed below, then please contact Siemens.

SYMPTOM	PROBLEM	ACTION
LCD Screen is faint or difficult to read.	Contrast too low	Press TEST/RESET & UP Button simultaneously
LCD Screen is dark or has lines across it.	Contrast too high	Press TEST/RESET & DOWN Button simultaneously
Protection Healthy LED not lit, LCD blank, Backlight off & No Flag LEDS lit.	Relay is not powered up	Check Auxiliary DC supply is available. Check connections on rear of relay.
Relay LCD displays "PSU alarm asserted, supply out of limits"	Power supply is too low.	Check the magnitude of the input DC voltage. Ensure it is within the relay's working range of 37.5 to 137.5 V
	Internal ribbon cable connection not made.	Check ribbon connection cable to module A is correctly attached.
Protection Healthy LED blinking, Messages & cursor blocks flashing across the LCD screen	Internal ribbon connections not made correctly	Check ribbon connection cables to each module are correctly attached.
Relay displays "Number of inputs or outputs changed Relay must cold start Settings will be defaultedPlease press enter"	Relay has performed a cold start due to a perceived change in hardware.	If the hardware has not been changed (i.e. status input/relay output card added or removed) then there may be a problem with the hardware. Contact Siemens
Protection Healthy LED is flashing. Protection Healthy Output contact is not energised.	Watchdog Operated: Hardware or Software Fault	Contact Siemens
Protection Healthy LED is steady, and LCD screen displays ohmega symbols $(\Omega)$ .  Protection Healthy Output contact is not energised.		

SYMPTOM	PROBLEM	ACTION
Relay unable to communicate using ReyDisp Evolution software	Communication channel incorrectly configured.  Refer to Section 6 of	Ensure connection between PC and relay (either via the front RS232 port or TX2 and RX2 on the rear of the relay) has been correctly made.
	this manual for more details on the configuration of the Communication Channel	Ensure Relay address is set correctly on both the relay and within ReyDisp Evolution. If the relay address is set to "0" the relay will not communicate.
		Ensure the baud rate / parity settings on the PC are the same as those set on the relay.
		If using the front port ensure that the setting IEC870 on Port is set to COM2 & COM2 DIRECTION is set to either Auto-Detect or the port being used.

### 3 Defect Report Form

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

Sender: * Name, first name:	Complete phone number (incl. country code):	Complete fax number (incl. country code):						
Email address:	* Org-ID and GBK reference:	* AWV:						
Email address.	org-ib and GBK reference.	AWV.						
	option): order-/ delivery note-no for return of commission failure:	Beginning order-no for credit note demand:						
Information concerning the product and its u								
* Order Code (MLFB):	Firmware version:	* Serial number:						
* Customer: Product wa	as in use approximately since: Station/proje	ect: Hotline Input no.:						
Customer original purchase order number:	Delivery note number with position number:	Manufacturer:						
* Type of order (choosing at least 1 option)  Repair  Up grade / Modification to  Type of failure:  Device or module does not start up  Sporadic failure  Permanent failure  Repeated breakdown  Error description:  Display message:  (use separated sheet for more info)  Active LED messages:  Faulty Interface(s), which?  * Detailed error description (please refer to other contents)	Return of commission failure  Warranty repair  For collection  Mechanical problem  Knock sensitive  Temperature caused failure  Failure after firmware update  Wrong measured value(s), which?	Credit Note Quotation (not repair V4 and current products! See prices in PMD)  Overload Transport damage Failure after ca hrs in use  Faulty input(s)/output(s), which?						
Yes, to most recent version	pair or mechanical upgrade of protective relay	s? (choosing at least 1 option) Yes, actual parameters must be reusable						
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 repre	esentative office in your country to ob	tain return instructions.						

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