

Replace defective RS232/RS485 CONV I-7520 ICP

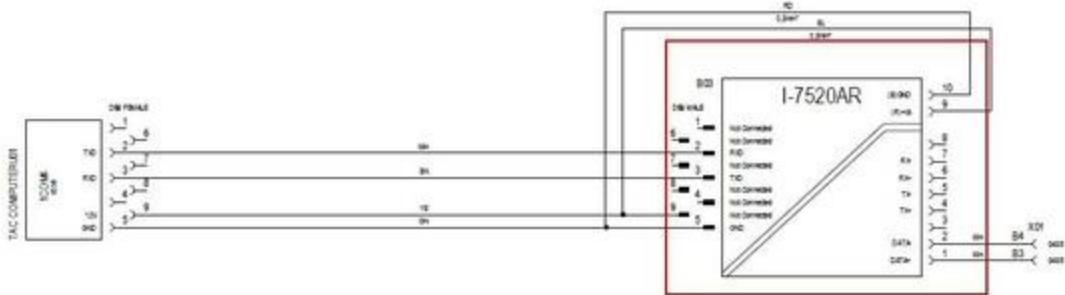
Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**
+AT2 Panel:

Check the connections at the ICP RS232/RS485 converter in the AT2 panel. Check for loose wires and plugs or corrosion at the converter.





Vestas	Property of Vestas Wind Systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our express written consent.	Date: 070628	Revised:	Function: RS485 comm. to +AT1 Top Panel
		Designed: 070628	FLT	Project title: Control Panel +AT2 V82-1.65MW MK5 50Hz
		Approved: 070628	FLT	Comments: customer: Vestas Wind Systems A/S
		Reviewed: 070628	IN Rev -	Drawing no: 934704 Cont. sheet: 505 Sheet: 50

VESTAS PROPRIETARY NOTICE

Relevant spare parts	
Description	Item No.
RS232/RS485 CONV I-7520 ICP	60004927

Note:

The below errors also may occur due to this defective cable core;

[399](#) - TAC-85 COMMUNICATION FAULT

[398](#) - TAC-84 COMMUNICATION FAULT

[590](#) - TAC-84 DOWNWIND COMMUNICATION FAULT

[222](#) - WIND SENSOR LEFT FAULT

223 - WIND SENSOR RIGHT FAULT

Check & repair cable connections

Does this solve the problem?

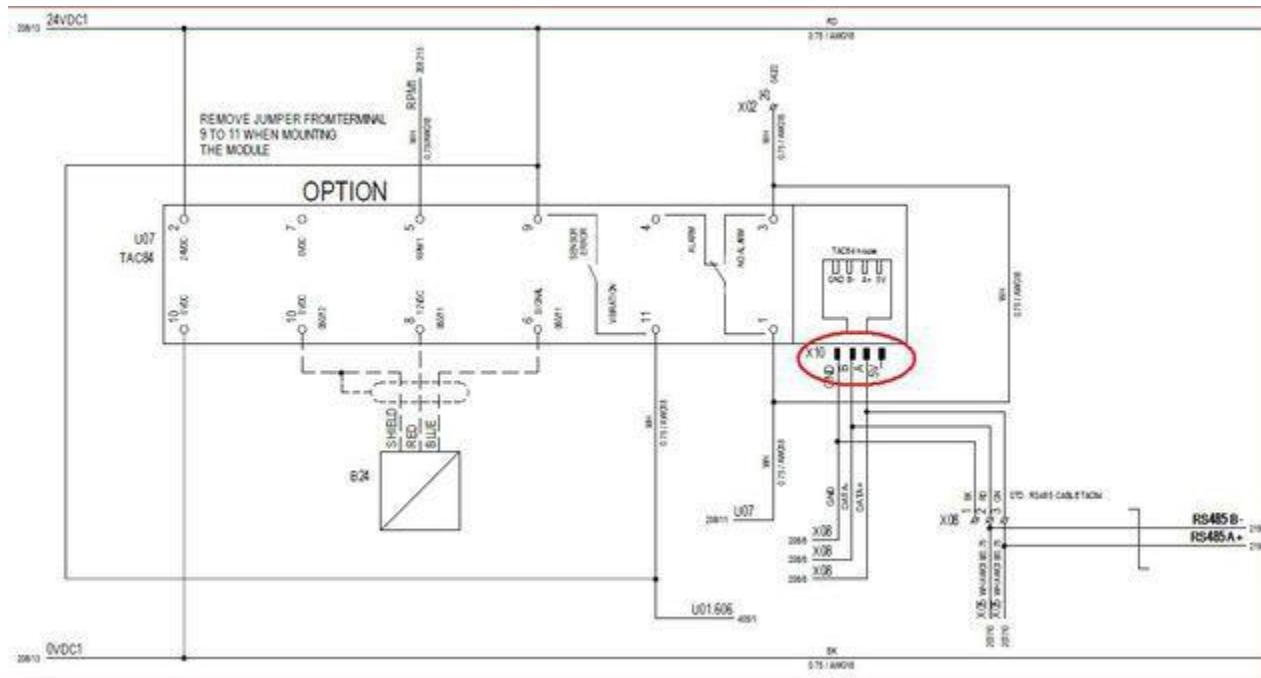
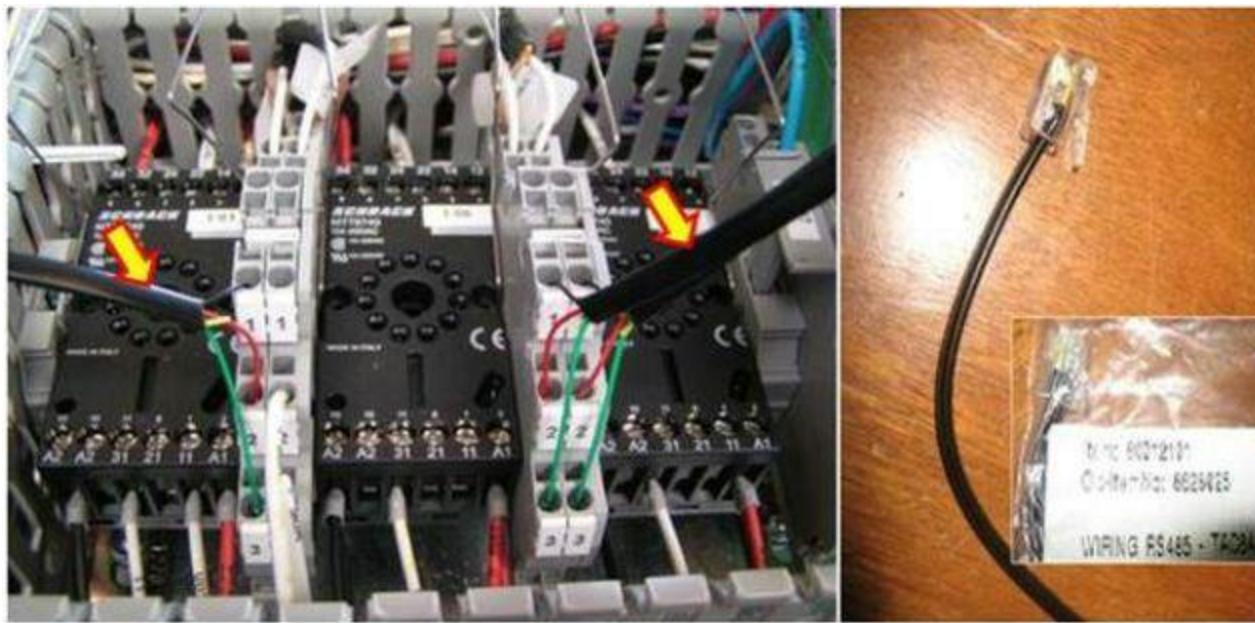
- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

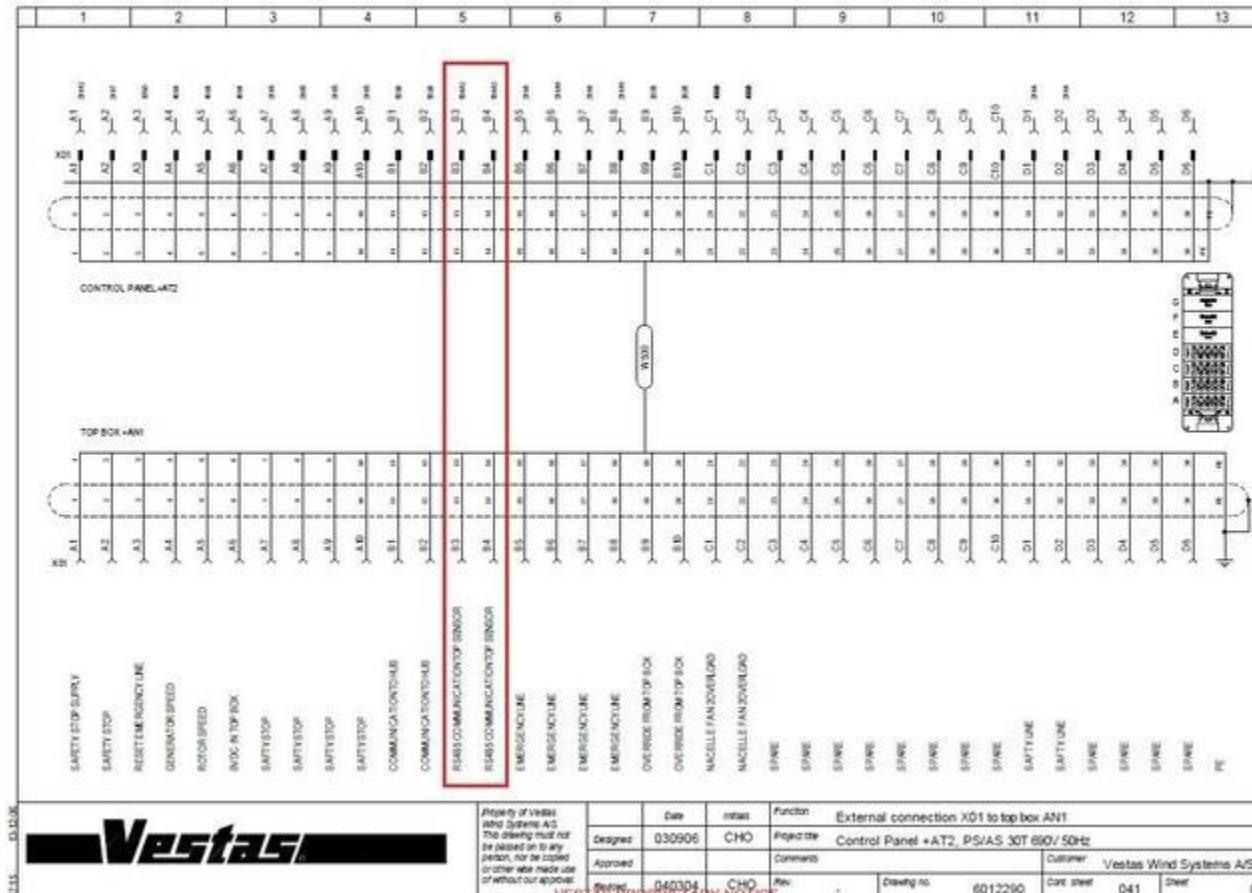
Check for poor cable connection on the TAC 84 communication cable.

If necessary replace the cable.

Relevant spare parts	
Description	Item No.
WIRING RS485 - TAC84/85	<u>60012101</u>

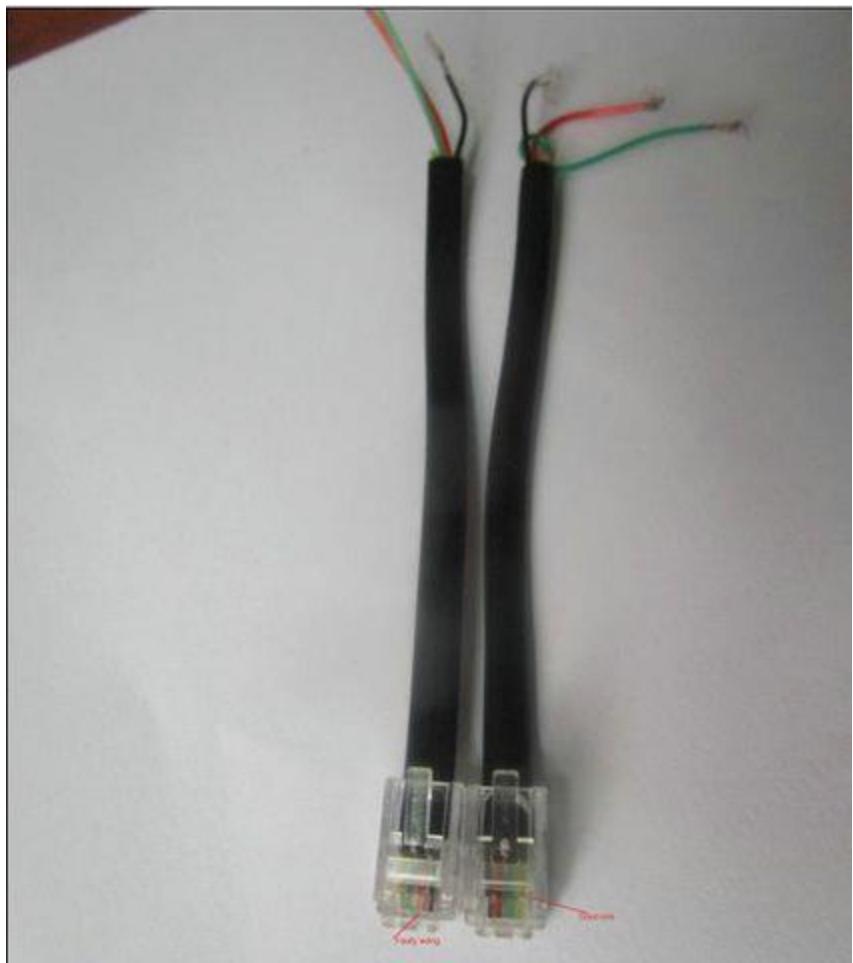


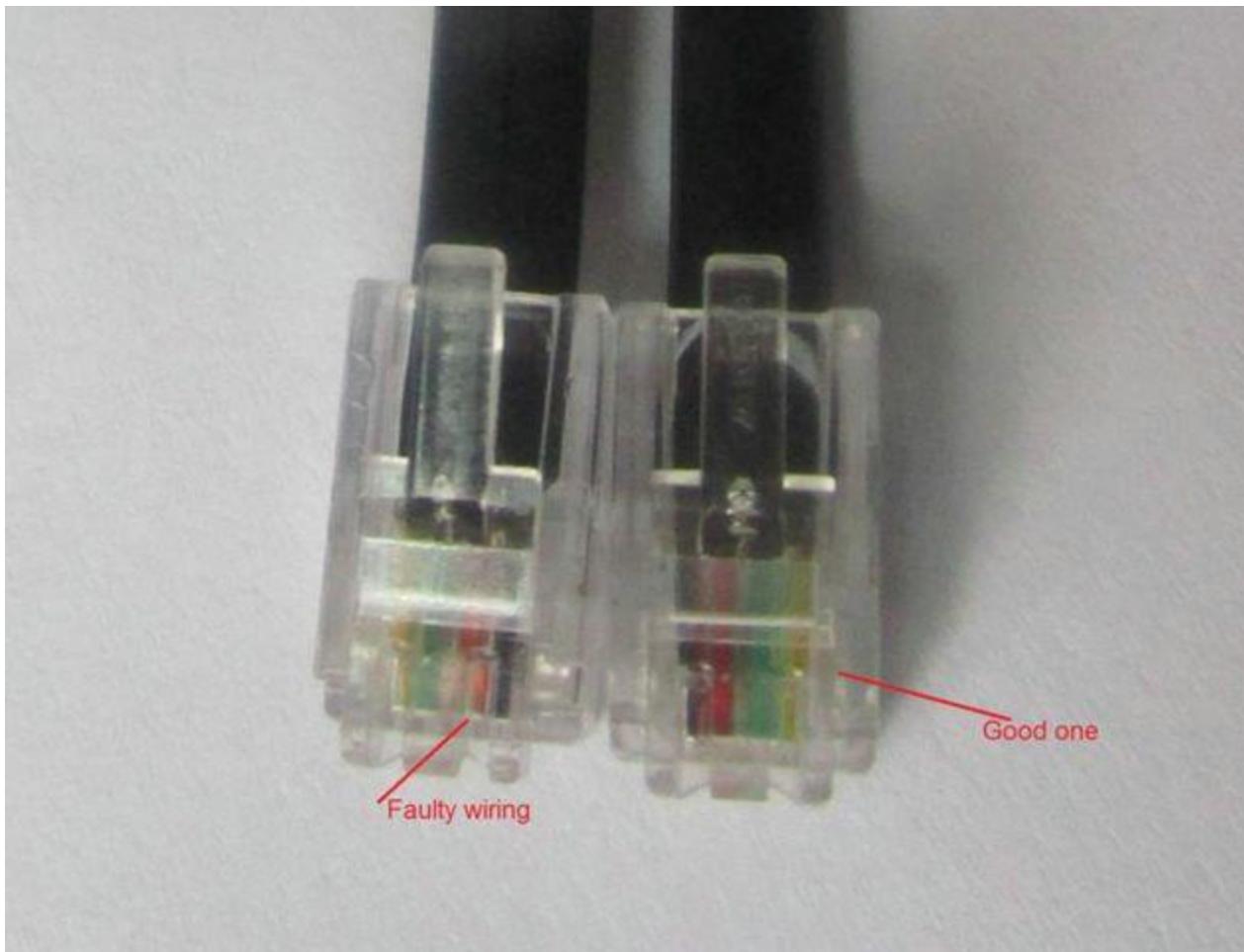
Check the continuity of B3 & B4 cores in cable W500 and replace with spare core, if no continuity.



NOTE: During replacement, check for wrong crimped cables, and its means colour code has interchanged which we received new cables with same part number (60012101) as shown below.

If found cables interchanged, then this should be corrected at the other end at connector terminals.





Note:

The below errors also may occur due to this defective cable core;

[399](#) - TAC-85 COMMUNICATION FAULT

[398](#) - TAC-84 COMMUNICATION FAULT

[590](#) - TAC-84 DOWNWIND COMMUNICATION FAULT

[222](#) - WIND SENSOR LEFT FAULT

[223](#) - WIND SENSOR RIGHT FAULT

Replace RS485/RS485 Repeater

Does this solve the problem?

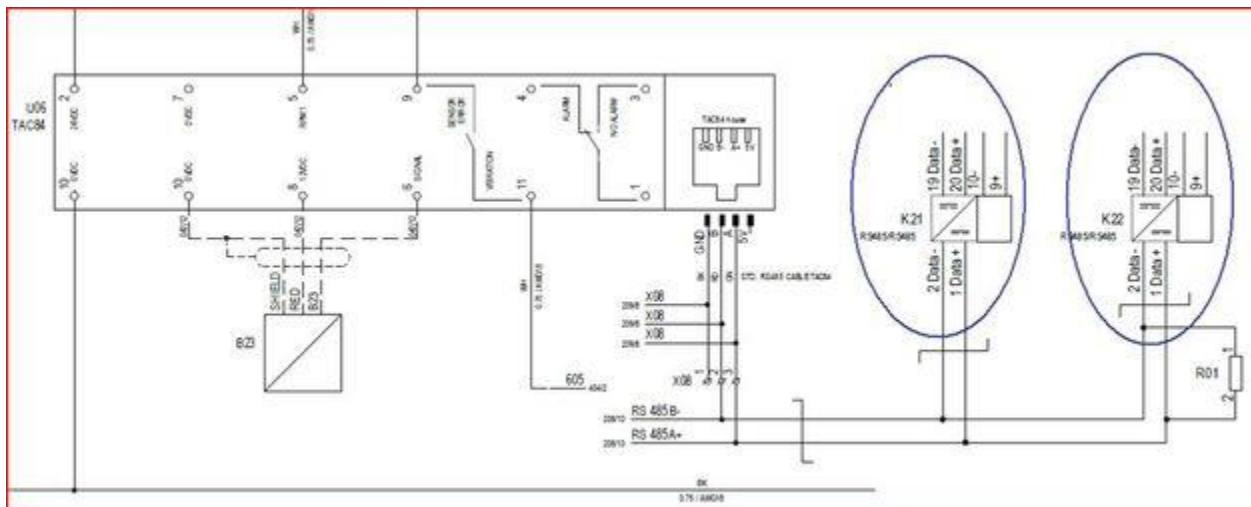
- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

Check the connections at the ICP RS485 repeaters (K21 & K22) in the AN1. Check for loose wires and plugs or corrosion at the repeater.

If there is still no communication, switch the ICP RS485 repeaters to see if the communication returns. If communication returns when the repeaters are switched, replace the faulty repeater.

Relevant spare parts	
Description	Item No.
RS485/RS485 REPEATER I-7510 ICP	60004933





Check and verify settings, correct if needed

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

• **Explanation**

Check the TAC 84 Node ID and RX/TX mode in the TAC 84 module.

Relevant documentation

Description	DMS No.
Settings for TAC 84 Vibration guard - Tower vibration	17000077
TAC84 User manual	5002041

32	RX/TX mode	2
33	Node ID	3 and 4

Replace U07 TAC 84 Module

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

If the communication cannot be restored by manipulating the com plug, replace the module. Update parameters as per TAC 84 settings.

Relevant spare parts	
Description	Item No.
TAC 84C VIB GUARD RS485 NMCS	51700101

U03

U06

U07

