



Bus Connection Module selection table for RED 500

CONTENTS

1. General.....	2
1.1 Introduction.....	2
1.2 Reference documents.....	2
2. Selection tables	3

1. General

1.1 Introduction

This document defines the RER Bus Connection Modules for different communication protocols that can be used with the RED 500 series of protection devices. For further details, please refer to the Technical Reference Manuals of the RED 500 products and the Technical Descriptions of the RER Bus Connection Modules.

Since the REF 54_, RET 54_ and REM 54_ products feature simultaneous dual port communication, please refer to the Technical Reference Manual of the product in question for extended information on the protocol combinations available.

The protocol availability is depending on both the product itself and the product revision.

Please note that no other communication modules or cables than specified in this document should not be used or connected if not otherwise stated in our product documentation. Please refer to the Technical Reference Manuals of the devices for further information.

1.2 Reference documents

Document title	Document ID
Protection Device manuals	
REC 523 Technical Reference Manual	1MRS750881-MUM
REF 54_ Technical Reference Manual, General	1MRS750527-MUM
REJ 521 Technical Reference Manual	1MRS750939-MUM
REJ 523 Technical Reference Manual	1MRS750940-MUM
REJ 525 Technical Reference Manual	1MRS750941-MUM
REJ 527 Technical Reference Manual	1MRS750616-MUM
REM 54_ Technical Reference Manual, General	1MRS750915-MUM
RET 54_ Technical Reference Manual, General	1MRS755225
REU 523 Technical Reference Manual	1MRS750942-MUM
REX 521 Technical Reference Manual, General	1MRS751108-MUM
Bus Connection Module manuals	
RER 103 Technical Description	1MRS750532-MUM
RER 115 Technical Description	1MRS755108
RER 123 Technical Description	1MRS751143-MUM
RER 133 Technical Description	1MRS755163

2. Selection tables

Table 1: RER Bus Connection Module compatibility for RED 500 devices

Device	Port	Protocol	Media:		FTT-10	RS-485
			RER 103	Fibre optic RER 123	RER 115	RER 133
REC 523	X5.1	DNP 3.0, Modbus, IEC101, RS-232 for modem connection				
	X5.2	SPA*)				
	X5.3	SPA	X			
LON		X		X		
REF 54_	X3.2	SPA		X		
		IEC_103		X		
		DNP 3.0		X		X
		Modbus		X		X
	X3.3	SPA	X			X
		LON	X			
REJ 52_	X2.2	SPA	X			
		IEC_103	X			
REM 54_	X3.2	SPA		X		
		Modbus				X
	X3.3	SPA	X			
		LON	X			
RET 54_	X3.2	SPA		X		
		IEC_103		X		
		DNP 3.0				X
		Modbus				X
	X3.3	SPA	X			
		LON	X			
REU 523	X2.2	SPA	X			
		IEC_103	X			

*) A special parameterization cable, type 1MRS120520, is required to enter the SPA bus mode on port X5.2.

Table 2: Used ports and available protocols in REX 521

	Port	Protocols
REX521	X3.2, X3.3, rear interface, fibre optic	SPA, LON, IEC_103, Modbus, DNP 3.0
	X3.1;9, 10, rear interface, RS 485,	SPA, Modbus, DNP 3.0

RER Bus Connection Modules are not needed with REX 521.