

Instructions for serial communication



The connection between PC and one or more LAE instruments requires usage of an SBC 485 interface adaptor to be interposed between RS 232 serial port and the communication bus. The connection between PC serial port and SBC485 is made by a common "modem cable".

In case of RS 485 serial communication, the bus consists of two polarized wires (A and B). The line can cover 1200 mt maximum; for long distance, it's advisable the usage of a shielded twisted pair polyethylene cable. An SBC485 accepts a maximum of 63 LAE instruments (see figure 1); if you need to add more units, or if you need a line longer than 1200m, you must then use a repeater SBR485: with this repeater you can establish an additional line with a maximum length of 1200m, with additional 63 LAE instruments (see figure 2). For good data transmission, it's imperative that at the cable end a 120 ohm resistor is placed in.

CONNECTIONS

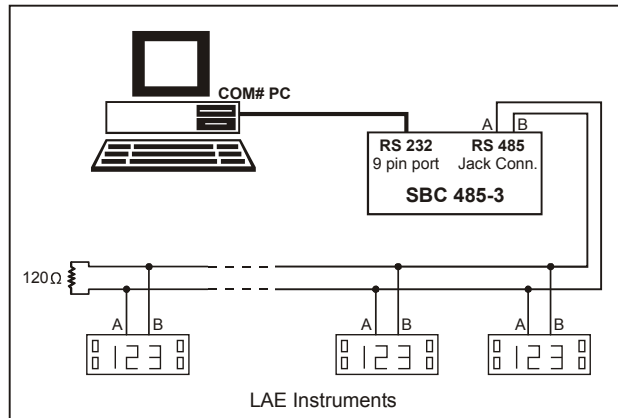


Figure 1 RS485 serial communication with maximum 63 LAE Instruments.

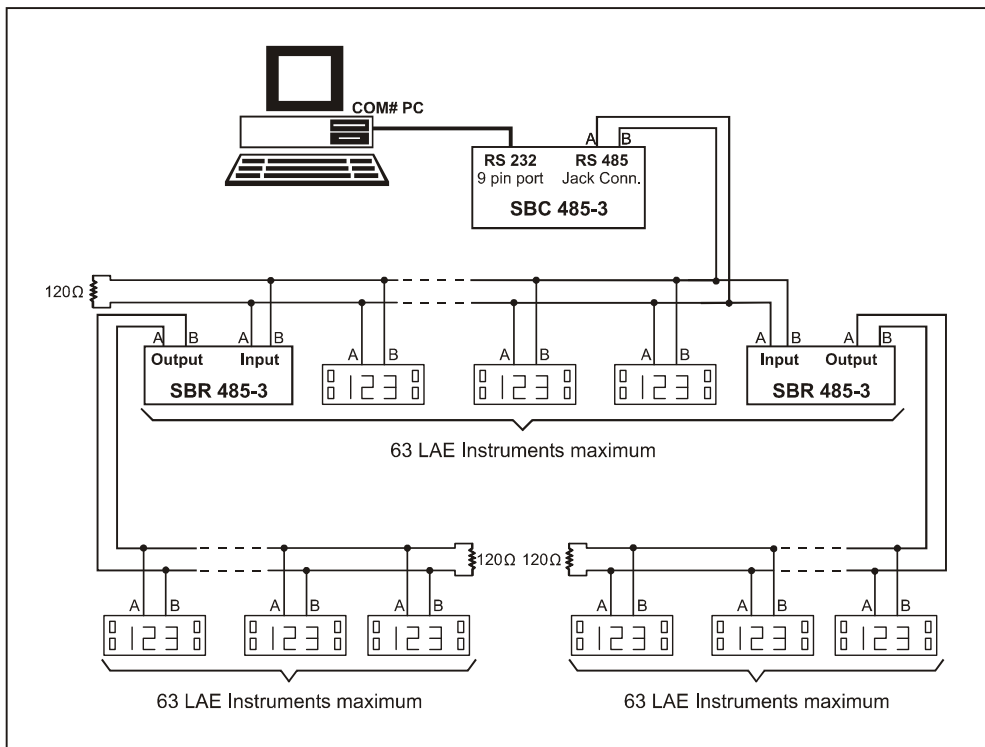


Figure 2 RS485 serial communication with more than 63 LAE Instruments.

Instructions for serial communication



Serial Communication Mode	SBC485-3 Jack Connector	SBR485-3 Jack Connector	Instrument with AMPMODU Connector	Instrument with Jack Connector
RS485				
TTL	NOT AVAILABLE	NOT AVAILABLE		

COMPONENTS NECESSARY TO BUILD A NETWORK WITH LAE INSTRUMENTS.

ITEM	LAE PARTS	
DB9-DB9 cable for connection between PC and SBC485		
RS232-RS485 converter	SBC485-3E	
Signal repeater, for networks with more than 63 LAE instruments	SBR485-1E	
Conneting cable instrument-network	2-wire cable, L=1.5m, suitable to plug LAE instruments with serial port on AMPMODU connector	FC04-15D01
	Cable with RJ45 plug for connection of LAE instruments with serial port on RJ45 jack	
Shielded Twisted Pair cable (STP)		
120Ω resistor for line termination		

For communication between PC and LAE instruments please use an LAE supervisory software such as the TAB or HTD.