

## [RS-232C] Checklist for dealing with issues involving communicating with the instrument

### If the instrument cannot be placed in remote mode

No.	What to check	Result
1	<p>Are you using the correct connection cable? Use an <b>interlink</b> or <b>cross cable</b>.</p> <p>*There are three types of RS-232C cable: (1) Straight (2) Interlink (for use when utilizing hardware flow control) (3) Cross cable</p>	
2	<p>If using a 9-pin/25-pin conversion adapter</p> <p>The adapter will implement a straight or cross connection internally. Ensure that when used in combination with the cable, the adapter and cable together provide a <b>cross connection</b>.</p>	
3	<p>If using a USB/RS-232C conversion adapter</p> <p>Verify that the adapter's driver has been properly installed. In Windows, you can accomplish this using the Device Manager.</p>	
4	<p>Check the COM port number. In Windows, you can accomplish this using the Device Manager.</p>	

### Checking the communications settings

No.	What to check	Result
5	<p>Has the communications speed been set properly? Ensure that the computer and instrument are set to use the same speed.</p>	
6	<p>If using flow control # For hardware flow control, use an interlink cable. # For Xon/Xoff flow control, use either an interlink cable or a cross cable.</p>	
7	<p>Is the interface configured to use 8 data bits, no parity, and 1 stop bit?</p>	
8	<p>Is the terminator set to the same setting as the computer and instrument (CR or CR+LF)?</p>	
9	<p>If using a PLC, check the settings as the default values may differ from the above.</p>	

### Checking communications

No.	What to check	Result
10	<p>Check whether you can communicate with the instrument using the sample application on the included CD-ROM.</p>	
11	<p>Check whether you can communicate with the instrument using a terminal application such as Teraterm.</p>	
12	<p>If you've developed your own communications software, refer to the sample program (which is written in Visual Basic) on the included CD. (The sample program includes examples for making a single measurement and waiting for open/short correction to complete, as well as an explanation of the basics of sending and receiving commands.)</p>	

### Other issues

No.	What to check	Result
13	<p>Check the following if the instrument emits a beep, indicating a command error or execution error: # Command spelling # Send commands one at a time and check where the error is occurring. # Communications speed and number of data bits</p>	

### If unable to resolve issue

No.	What to check	Result
14	<p>Restart the computer and instrument. You may be able to resolve the issue by installing a driver or other software.</p>	