

COMTEST - RS422 Remote Tester

TESTING THE CONNECTION

There are 30,239 possible incorrect ways to connect the cable. COMTEST detects all of these. It will also detect cable breaks, and faults in the Controller and Device ports. It shows whether data is passing from the Controller to Device and back. Two pairs of LEDs indicate that everything is working properly, or a fault exists. A logical sequence of tests will indicate the likely source of the fault condition.

TESTING PORTS

First plug COMTEST into the Controller's port. The Controller GREEN LED should light. Any other condition indicates a Controller fault.

Now plug COMTEST into the Device's port. The Device GREEN LED should light. Any other condition indicates a Device fault.

Then plug the cable from the Controller into COMTEST. Both GREEN LEDs should light. If you send data from the Controller (press a key) the Controller RED LED should flash. The flashes are very short and not easy to see under bright environment.

TESTING BETWEEN CONTROLLER AND DEVICE

With COMTEST plugged in the Device, plug a RS422 cable from the Controller into the other end of COMTEST. Both LEDs should now light. When data is sent between the two units, the RED LEDs should also flash. Depending upon the baud rate of the data the flashes may be of short duration.

TESTING CABLES

First check that the port is functioning correctly. Then plug COMTEST into the end of the cable. If the cable is OK the GREEN LED should also light. Any other condition indicates a cable fault.

A RED LED indicates that the +/- wires are swapped. The Device GREEN LED lighting when COMTEST is connected to the Controller's port indicates that the Send/Receive pairs are swapped. No LEDs indicate broken wires or wires connected to other pins. If COMTEST is plugged in to the Controller's port the the opposite LEDs indicate as above.

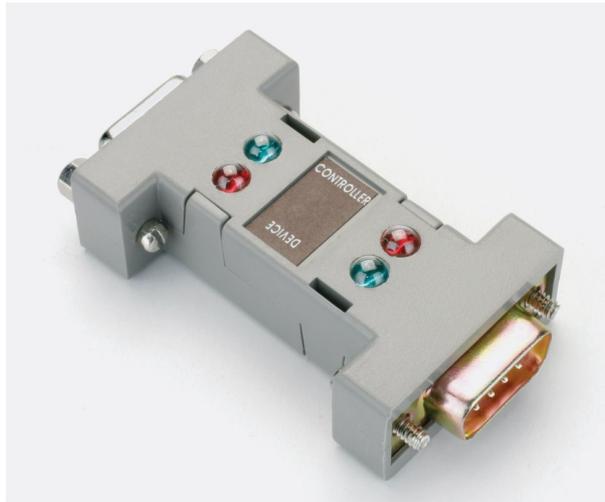
COMTEST - THE PLUG-IN DATA-COMMS TESTER

COMTEST is small, only 63 x 33 x 25mm. Engineers and technicians will find it indispensable, whether commissioning systems or in maintenance. Non-technical users will find it useful, in that they can readily identify the likely cause of failure, and consequently what best action to take.

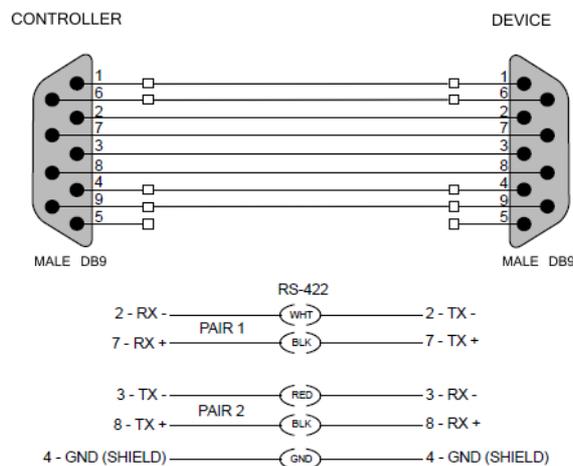
THE RS422 CONNECTION

The RS422 system is a 4 wire balanced data connection between a Controller and a Device. Examples of Controllers are editors, graphics systems and a variety of control panels. Devices include VTRs, vision mixers, routing switchers etc.

Normally, 9 pin D-type male connectors are used at each end of cables, with female connectors on the rear panel of both Controller and Device. The circuit comprises 4 signal wires (2 balanced pairs) plus signal and chassis earths. The earths, if both are used, according to convention may each be wired to two separate pins in the connector (4 pins in total). The ninth pin is not used.



THE RS422 PIN-OUT



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