

FBT-4 - Fieldbus Power & Signal Probe Instruction Sheet

The Fieldbus Power & Signal Probe, FBT-4, is used to examine the operation of a live Fieldbus network without interfering with its operation. The Probe is intended for maintenance personnel to verify network operation or to troubleshoot an errant network.

Operation

There are three LEDs that are used to indicate the status of the Fieldbus network. They are labeled **Signal**, **Voltage**, and **Reversed**.

Signal: Indicates that there is bus activity. It will only light if there is data over 150 millivolts peak-to-peak. The validity of the data is not checked. You will notice that the LED blinks when there is bus activity. It is directly driven from the frame data and since there are brief moments of silence on the Fieldbus, the LED will be off briefly as well.

Voltage: Indicates that the DC Voltage on the Fieldbus is over the 9.0VDC minimum.

Reversed: Indicates that the Probe (or the Fieldbus) polarity is reversed.

Connection

The probe that is attached to the case is the negative input into the FBT-4 and should be connected to the negative wire of the Fieldbus. The Red wire with the pointed probe should be connected to the positive wire of the Fieldbus. If you need to connect the FBT-4 for handsfree operation, add the Red Mini-hook assembly (optional) to the end of the Red pointed probe. The optional black cable with a Mini-hook plugs onto the negative tip which is attached to the case.

Specifications

The FBT-4 is powered from the Fieldbus itself and uses 12 - 16mA of current (depending on bus voltage and ambient temperature). **CAUTION:** Be careful when connecting to a current limited spur (Spurguard™). The added current of the probe may exceed the rating of the Spurguard™ and shut down the spur. The FBT-4 can be used in hazardous areas. Operating temperature range is 0 – 50 degrees centigrade.

Options

Beside the optional clip-on probe adapters available for the FBT-4, a carrying case with a pocket for the optional probes is also available.



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