

Wizard170 Operating Instructions



TS170 Sender for Krone 10-pair connector block



TD170 Display for Krone 10-pair connector block

WARNING—The Wizard170 can only be used on cable not connected to any other equipment - external voltages may damage the Wizard170.

Wizard170 Kit Contents

TS170 K10 Sender Unit; TD170 K10 Display Unit; Power Bank 5000mAh; USB Cable; Operating Instructions.

Wizard170 Operating Instructions

Charge the Power Bank using the supplied USB cable. Plug the USB-C connector into the Power Bank and the USB-A connector into a USB charger.

When the Power Bank is fully charged, connect the Sender Unit into a Krone 10-pair connector block at one end of the terminated cable. Make sure the Sender is plugged in correctly with Pair 1 of the Sender connected to pair 1 of the Krone block.

Connect the Power Bank to the USB-C connector on the Sender Unit. The Red LED should begin flashing with a longer on-time once every 20 pulses.

Plug the Display Unit into the Krone block at the other end of the terminated cable, making sure that pair 1 of the Display is connected to pair 1 of the Krone block.

There are 20 LEDs on the Display Unit arranged in a line from the left end to the right end. The first LED is Red followed by a Blue LED and then the LEDs alternate between Red and Blue.

If the cable has been terminated correctly, The LEDs will light in sequence from left to right, alternating between Red and Blue. The first Red LED is illuminated for twice the time that the other LEDs are lit.

Identifying Cable Errors

Errors in terminating the cable can be found by checking the sequence of the LEDs. To make it easier to identify the exact position of the fault the rate at which the LEDs flash can be slowed by operating the slide switch on the Sender Unit.

Split Pairs

If a pair has been split so that the a and b wires have been separated the LEDs will not light in sequence from left to right. At one point there will be a missed LED and most likely two LEDs of the same colour will light in sequence: Red-Red or Blue-Blue

Open Circuit

If one wire of a pair is unterminated or there is a break in the cable, an Open Circuit results. This can be identified by one of the LEDs not lighting.

Short Circuit

If there is a short circuit between the **a** and the **b** wires of a pair, the Blue LED will not light. If there is a short circuit between two a wires or two b wires, then two LEDs will light at once.

Transposed Pairs

If a pair has been wired out of sequence, e.g. pair 4 has been terminated on pair 5 at the other end; then the LEDs will light out of sequence.

Reversed Polarity

If the **a** and **b** wires have been reversed at one end then the LEDs will light in reverse, the Red and Blue LEDs will be reversed; the Blue LED first followed by the Red LED.