Tech notes

X·RiteColor®

Spot Reading Using the DTP41

A number of our users have requested a way to do spot measurements using the DTP41. This is a reasonably simple procedure using the supplied ToolCrib software that ships with every DTP41. The following outlines a simple step by step procedure to execute a spot read measurement. Note that you cannot use Toolcrib with the DTP41 while another program is also trying to use the 41.

1) Start the ToolCrib software.
2) Select the DTP41 instrument and the serial port it is connected to.
3) Under the **Tools** menu select **Setup**.
4) Select the type of response (ie: Status T, Status E, Lab, etc.) you wish to use.
5) Close the **Setup** window.
6) Under the **Tools** menu select **Terminal.**
In the following series of commands <return> means to tuse your "return" key after each comand.
 7) Type **0105cf** <return> (This sets the instrument into auto transmit mode)
 8) Type **0013cf** <return> (this sets the instrument into static read mode.
 9) Type **0214cf** <return> (this sets the insturment to average two reads of the same spot)
10) Type **0115cf** <return> (this will send back reading for the button push)
11) Type **030acf** <return> (this will set three decimal place precision)
12) Cut out the template on page two, be careful to follow the instructions precisely.
13) Sandwich the the area to be read between the upper and lower sheets of paper.
14) Insert the template and sample into the instrument. This is most easily accomplished by slightly lifting the top of the instrument and sliding the template and sample in from the side.
15) Press the read button on the instrument, the selected response will appear in the terminal window.

Step 4 Fold this piece up 90 degrees along dashed line, so that this arrow points up.

(This piece is scrap)

Step 5 Fold along this dotted line so that the flap wraps around the end piece folded up in step 3.

Step 6 Place a piece of tape on the corner to hold the two sides upright.

Step 7 Cut out the two rectangles for the optics. It may be easier to use an X-acto knife for this.

Scrap

Section A

Scrap

Step 3 Fold this piece up 90 degrees along dashed line, so that the arrow points up.

Step 2 Fold this section along dashed line down under section A. See graphic below.

When assembled and inserted into the DTP41 correctly, this portion will extend out the front of the instrument.

DTP41 Static Reading Template

The solid lines in the above template represent cut lines. The dashed lines represent folds. The four crosshatched areas are scrap.

Step 1 Begin your template setup by cutting along the solid lines indicated with the scissor graphics. Cut all the way to the edge of the paper.