APPLICATION NOTE

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02.14.19

Application Note 186

Psychological Assessment using the TSD115/115A

Overview

The ability to collect and display psychological responses via a self reporting mechanism can be implemented using the TSD115 Variable Assessment Transducer with the MP160 or MP150 System. The MP160/150 System with Acq*Knowledge* provides considerable flexibility when performing these kinds of measurements.

The following procedure illustrates how to perform a four channel Psychological Assessment Test using the MP160/150 System.

Equipment:

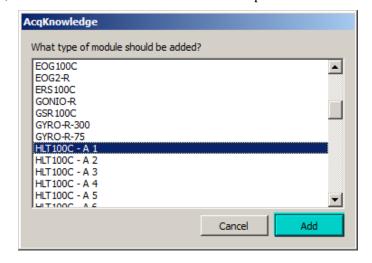
- One MP160/150 System
- One HLT100C or AMI100D module
- Four TSD115 or TSD115A Variable Assessment Transducers

Hardware Setup:

- 1. Snap the HLT100C/AMI100D module onto the left side of the UIM100C (MP150) module. (The MP160 System uses the HLT100C or AMI100D only.)
- 2. Plug the four TSD115 Variable Assessment transducers to channels 1 through 4 on the HLT100C/AMI100D.
 - O Any four channels could be used, but this application note assumes channels 1 through 4 are the ones chosen.
- 3. Make sure the MP160/150 hardware is powered ON and connected properly to the computer.

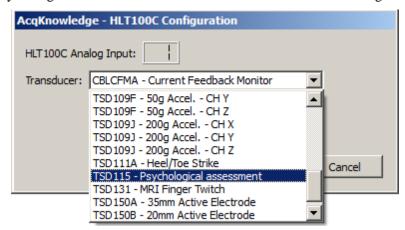
Software Setup

- 1. Launch the AcqKnowledge software and choose "Create/Record a new experiment."
- 2. Choose HLT100C A1, or AMI100D A1 from the Module Setup menu and click "Add."

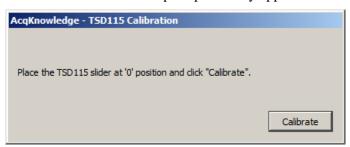


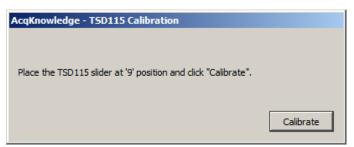
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3. Choose "TSD115- Psychological Assessment" from the HLT100C/AMI100D Configuration menu and click OK.

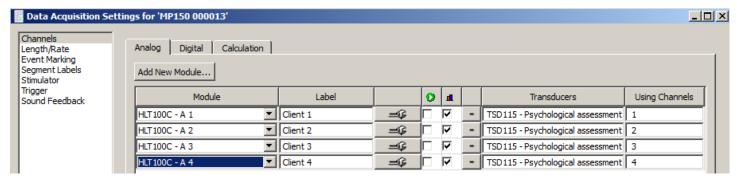


4. Follow the Calibration prompts as they appear.

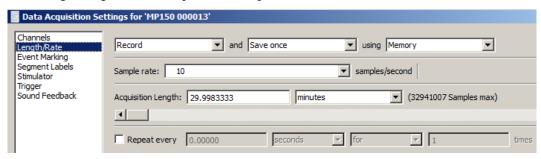




- 5. Click "Add New Module" and repeat Steps 2-4 for Channels A2 through A4 (Choose HLT100C/AMI100D, TSD115, and follow Calibration prompts.)
- 6. Label each Module channel "Client 1" through "Client 4."



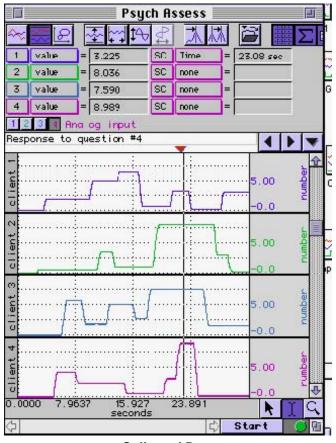
- 7. Select "Length/Rate" from the MP160/150 menu.
- 8. Choose the sampling rate and select the desired recording period.
 - Generally, a sampling rate of 10 samples/second is more than adequate to record from the TSD115/115A.
 The following dialog illustrates a possible setup.



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Recording

Begin recording data by pressing the **Start** button in the Graph window. The data will begin scrolling across the screen as shown below. Use the Acq*Knowledge* **Event Markers** feature to identify the points in time that certain events take place during recording (questions asked, slides shown, responses given, etc.). Click the **Stop** button when done.



Collected Data

Analysis

The graph above shows a measurement which identifies the responses (on a scale from 0 to 9) of the four clients to a particular question. To identify the response for each client:

- 1. Set a measurement box for "**Time**" (Since all channels share the horizontal time scale, you can use "**SC**" for selected channel rather than choosing a particular channel.)
- 2. Set a measurement box for each channel to "Value."

In this case, at 23.08 seconds into the recording, the responses to question four were:

Client 1 3.225

Client 2 8.036

Client 3 7.590

Client 4 8.989

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