Flaw Detection, Rapid Integrity and Thickness Evaluation of Concrete/Masonry with 1-Sided Access
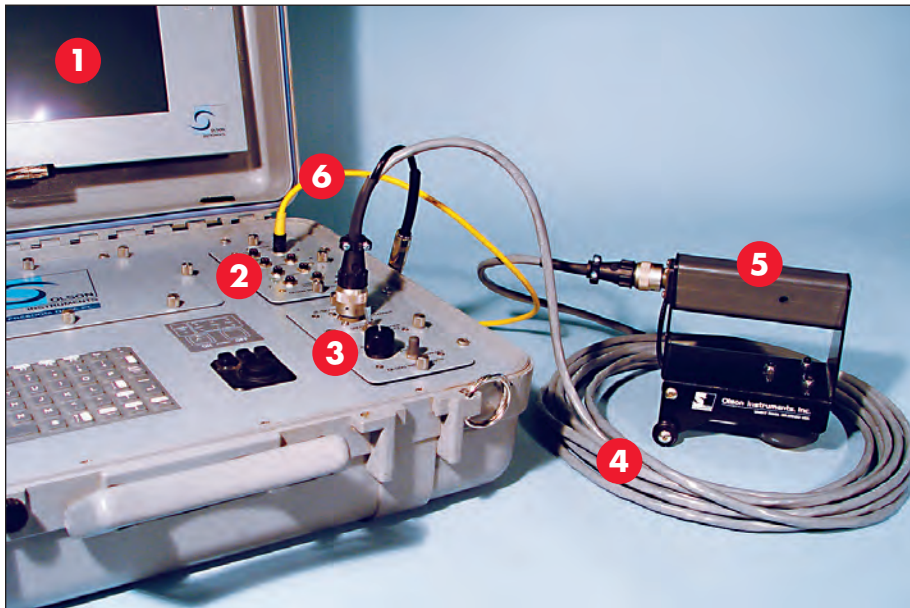
CTG - IMPACT ECHO
Testing

1.0 HARDWARE COMPONENT LIST

1.O IMPACT ECHO (IE) EQUIPMENT LIST

(1) - 1 Olson Freedom Data PC

(2) - 1 IE Input Module (1 Channel, High Pass, no Green Light)

(3) - 1 IE Pulser Module

(4) - 1 IE Test Cable

(5) - 1 Test Head

(6) - 1 Phone to 4 Pin Adapter Cable

* Equipment/Software Required for Testing Not Shown in Photo:
- Latest WinTFS Software
- Field Notebook & Pen

1.0 HARDWARE SETUP

STEP-BY-STEP GUIDE

CTG-IMPACT ECHO (IE) HARDWARE SETUP

1. After opening the Freedom Data PC, insert the input module into the top module pocket if not already present. This pocket is reserved for the input modules.

2. Next insert the IE/Scanner Pulser module into the bottom module pocket if not already present. This pocket is reserved for pulser modules.
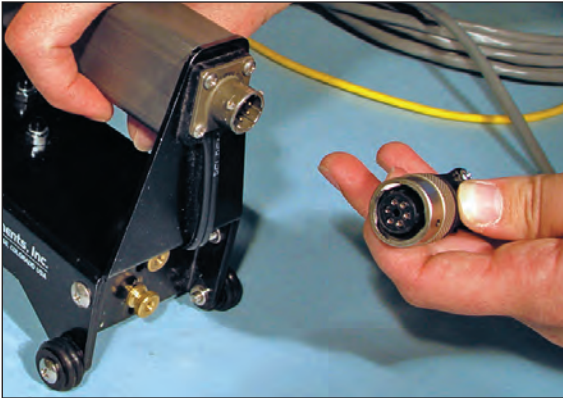
3. Now that the modules for this test are resting in their appropriate module pockets, hand-tighten the screws on each module to secure them into the Freedom Data PC. The screws must be properly aligned with the holes in the Freedom Data PC.

2.0 HARDWARE SETUP

4. Now connect the IE Test Cable to the test head unit. This is done by aligning the pins with the appropriate holes and gently hand tightening. Make sure that the splicing end of the cable is left to be connected to the Freedom Data PC input and pulser modules.

5. Next the IE Test Cable must be connected to a 4-pin adapter cable. This is done by inserting the phone plug end of the IE Test Cable into the phone jack end of the 4-pin adapter cable. No alignment is necessary.

6. Next connect the other end of the IE Test Cable to the IE Scanner port on the IE/Scanner Pulser module as shown in the figure. This is done by aligning the pins with the appropriate holes and gently hand tightening.
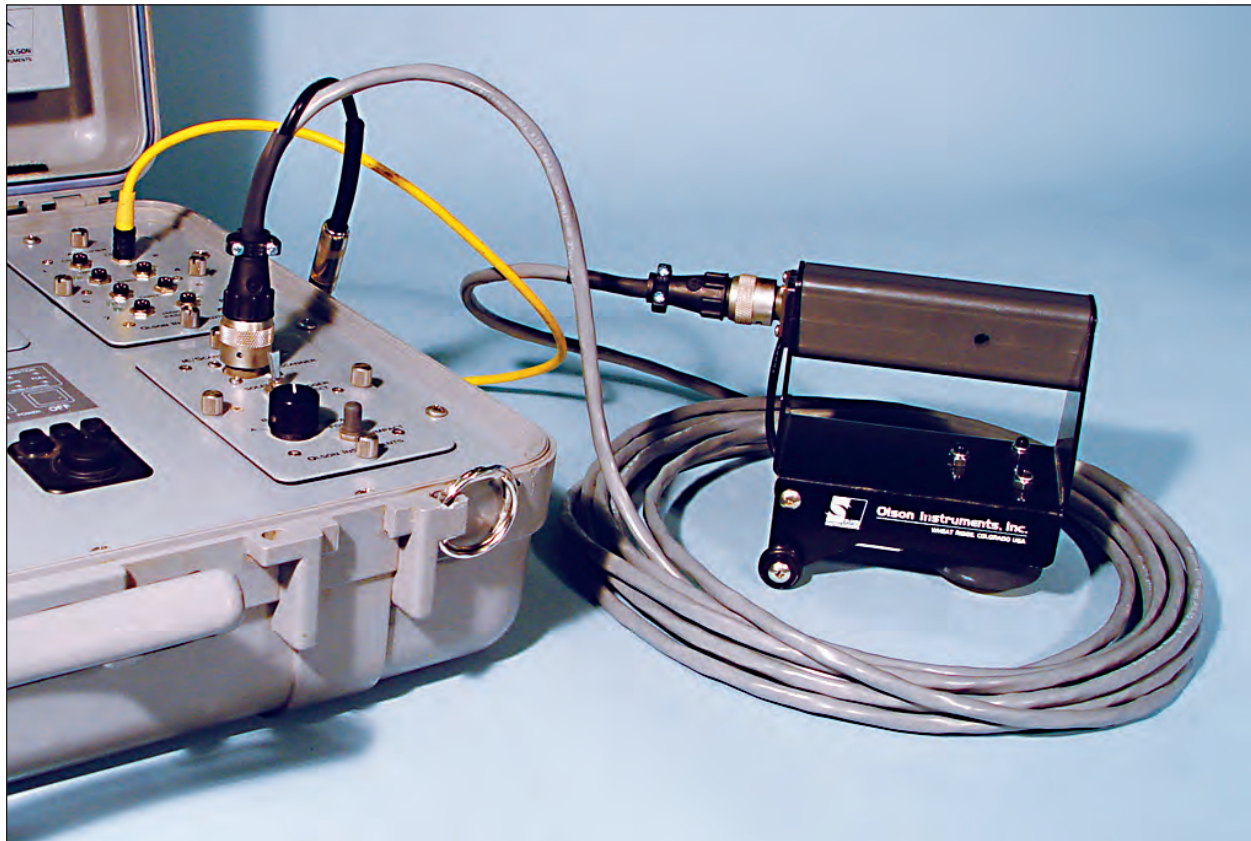
2.0 HARDWARE SETUP

7. The 4 Pin Adapter Cable must now be inserted into the appropriate slot in the input module. This can be done by pulling back on the small black sleeve at the end of the cable and carefully lining up the four holes on the cable with the four pins on the input module. For IE testing it is important to use a channel that is high pass filtered. Therefore any channel designated as CSL or UPV is appropriate.

8. Now the hardware setup for the system is complete.

Complete CTG - IE System with all components properly attached

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