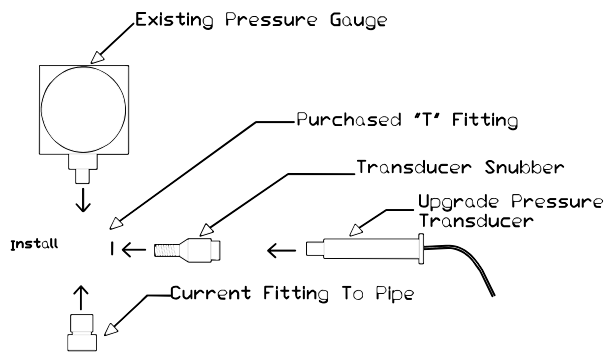


<b>Project Title:</b>	<b>The Upgrade of a Basic Refrigeration Trainer</b>
<b>Client:</b>	ONU Engineering Department
<b>School Year:</b>	2000-2001
<b>Students:</b>	David Balek and Joshua Slusher
<b>Summary:</b>	The upgrade of the basic refrigeration trainer focused on the integration of multiple sensors in conjunction with a data acquisition (DAQ) device to provide quick and accurate data through a LabVIEW program. The work for this project incorporated the Hampden basic refrigeration system trainer purchased by Olivet Nazarene University, Department of Engineering. The current system, which consists of thermometers, pressure gauges, and a flow meter, has no means of data collection. The outcome of the project includes new sensors, functioning DAQ, an enclosure for the DAQ, design plans and parts listing for upgrading the basic refrigeration trainer, and a computer program display of sensor measurements. Many sensors were evaluated from a variety of sources, but the sensors chosen were from Omega Engineering, Inc. The DAQ and computer software were National Instruments FieldPoint Modules and LabVIEW 6i respectively.

Before



Pre-Assembly

After

