



LEADING THE WAY IN AUTOMATION

Certified M.B.E./W.B.E./D.B.H. Company

840 W. Milwaukee

Detroit, MI 48202

United States of America

Phoenix Digital Optical Communications Installation Overview

Phone: 313-874-5877

Fax: 313-871-0641

Website: www.pci-detroit.com

This report is to assess the installation of the Phoenix Digital optical communications modules by a technician who has had no previous experience with these modules or fiber optic technology. The setup environment is inside of a Rockwell and Allen-Bradley PLC lab containing a pre-existing running program. With a Stratix 5000 switch currently being used to integrate between the servers, remote desktop, PLC's, and field devices; utilizing RJ-45 cables.

The Optical Communications Modules being installed are model #OCX-EMOD-85-R-D-ST-ACV-4A1. There are three stand-alone modules with all the proper cables and wires out of the box. Power connection and setup was simple and seamless, as it followed electrical convention. The mounting process was very convenient with the spring loaded locking mechanism to mount the modules to the DIN-Rail. Confusion arose with the coloring scheme of the fiber optic cables (even though the colors are interchangeable such as having Tx be all red or all black). Since the technician installing the modules had no prior experience with fiber optic communications. There was no color reference inside of the user manual and the information had to be obtained from the internet to understand industry convention/standard.

Once the fiber optic cables were installed communications for all equipment were transferred from the Stratix 5000 switch to the newly installed fiber optic network. A master module was selected as per the manual and all devices/equipment began talking without any further configuration. No further operation was required. Backup features were tested between all the modules and worked without any break in communication.

Overall installation was simple and fast, with very little guidance being required on a technical level. The only exception was creating a master module and using the rotary switch to accomplish that task. Which the manual laid out very clearly making it easy to understand. The entire installation process only took approximately an hour of time, that is to include reading the manual as well.