



4909 Pearl East Circle, Boulder, CO 80301



Model: Reader QP03

Part Numbers: RDR-QP03-P01-07 and RDR-QP03-P01-07

User Manual

Safety Information

No operator serviceable parts inside. Refer servicing to qualified service personnel.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15.249 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation or commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

QP03 Reader Overview

The QP03 Readers are part of an RTLS (Real Time Location System) that also includes RFID (Radio Frequency Identification) Tags affixed to assets and can include Infrared (IR) and radio frequency (RF) emitting location Indicators. The location Indicators emit a trigger that causes the RFID Tags to respond via RF which is then received by the QP03 Readers. Data received by the Readers is processed and forwarded via an Ethernet connection. The Ethernet connection also provides power via Power Over Ethernet (POE).

Installation Instructions

Power for the QP03 Reader is supplied by a compatible Power Over Ethernet (POE) midspan or injector over CAT5/e or CAT6 Ethernet cable and a POE adapter (splitter) at each Reader as shown below.

1. Place the QP03 Reader in the desired location (above the ceiling, mounted on the wall etc).
2. Attach the transmit and receive antennas to the Reader and place the antennas in the desired location and orientation. Affix the antennas using an approved method. See Figure 1.
3. Verify that the POE adapter is set for 5V.

Plug the supplied Ethernet patch cord into the LAN OUT connector and the power cable into the DC OUT connectors on the POE adapter. See

4. Figure 2.
5. Plug the Ethernet patch cable and power cables into the appropriate connectors on the Reader. See Figure 1.

Plug the POE-enabled Ethernet cable into the POE adapter (P+DATA IN). The Green Power LED (PWR) should light on the POE Adapter and the Green Power LED should light on the Reader Ethernet connector. The amber LINK light may light on the Reader if the network cable is connected to the facility's network. See

6. Figure 2.
7. Secure POE and antenna cables as per any local building codes or requirements.

Power Requirements

- Input Voltage 5VDC 2A Note: The ethernet switch/adapter has two power options. Before connecting power it is mandatory to ensure that the "5V" position is selected. Applying higher DC voltage voids the warranty.

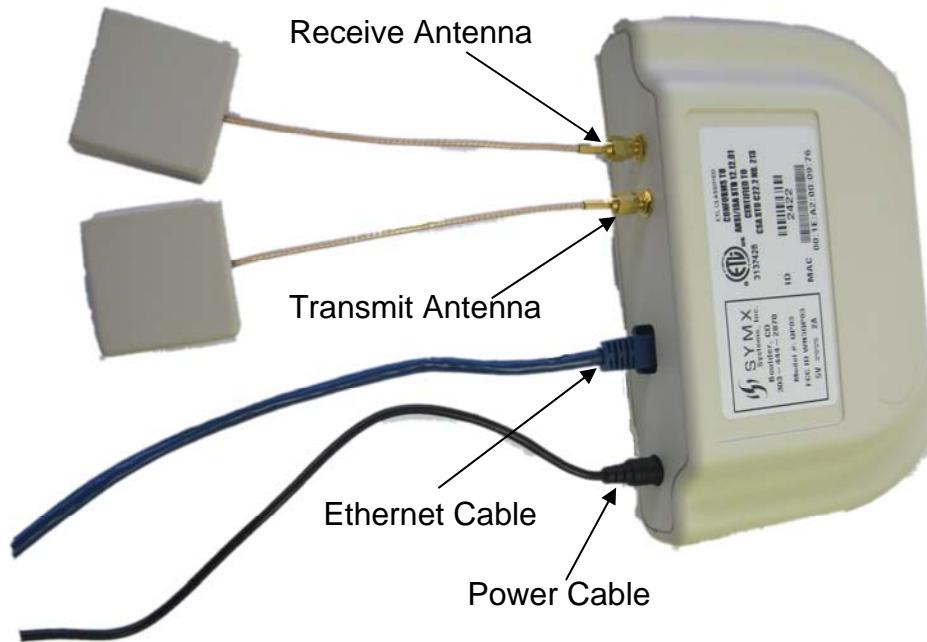


Figure 1: Model QP03 part number RDR-QP03-P01-07 Illustrating external connections

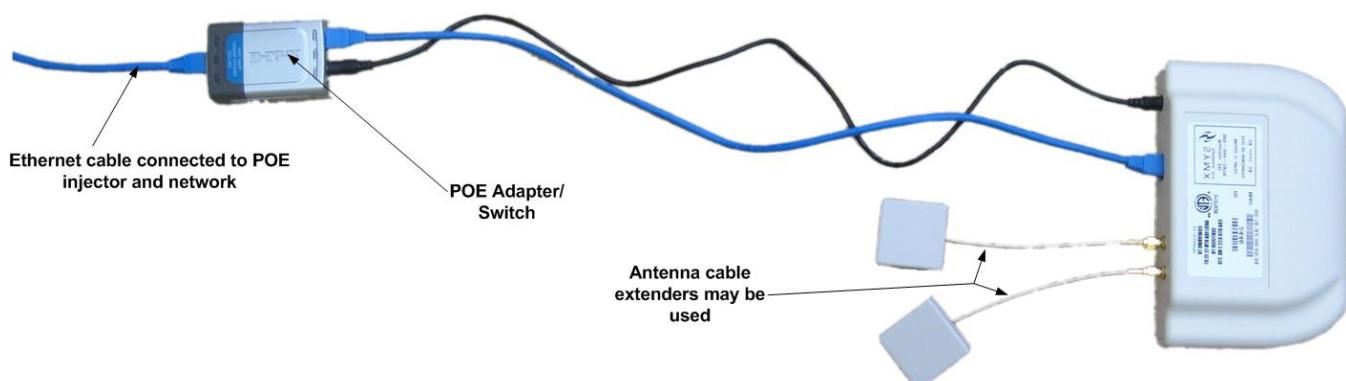


Figure 2: Model QP03 part number RDR-QP03-P01-07 Illustrating all components

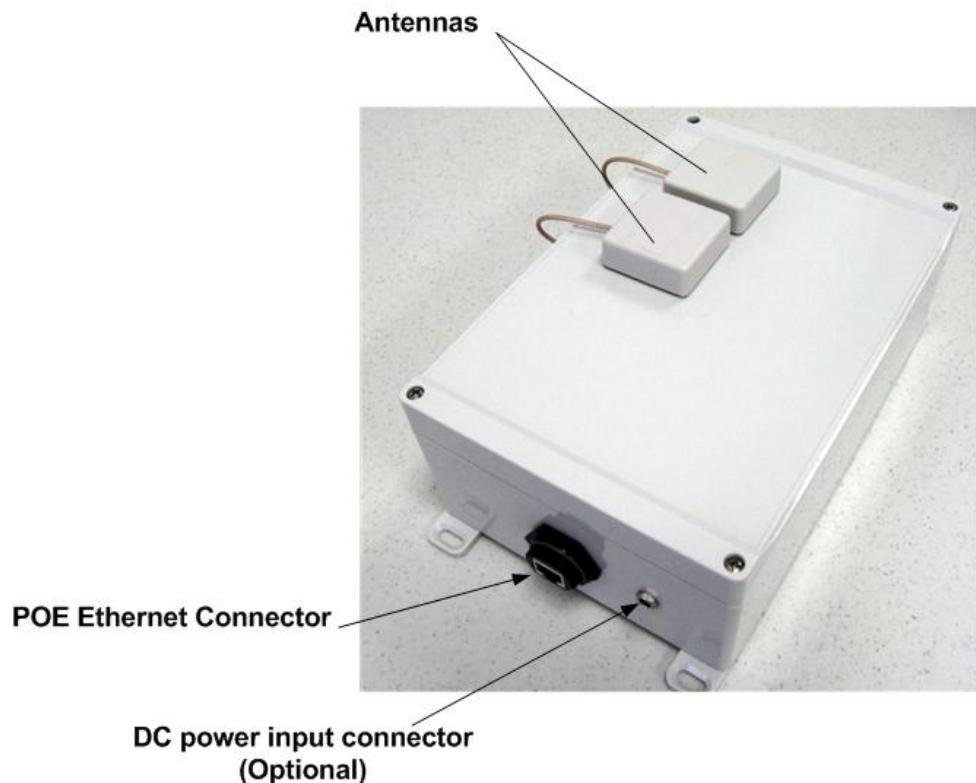


Figure 3: Model QP03 Part number RDR-QP03-P01-01 illustrating external connections and antennas.