

5

Attach the supplied sealing grommets to the Matrix Ethernet and PWR/COMMS cable and insert the sealing grommets into the enclosure cord grips.



6

Using an appropriate wrench tighten the cord grip around the Matrix 410N ethernet and PWR/COMMS cable. Ensure that the grommets have been pinched by the cord grip creating a tight seal.



WARNING: The Matrix Enclosure should be checked on a periodic basis to ensure the enclosure is in good working order and the temperature is between 40 to 100 °F (7.2 to 37.7 degrees C) or damage to the Matrix 410N may occur. Diamond Technologies also provides a remote monitoring tool which allows for monitoring the internal temperature of the enclosures through a web application. Information can be found by contacting Diamond Technologies.

ENC-M410-H-100 Industrial Heated Matrix 410N Enclosure

Quick Reference Guide



Model: ENC-M410-H-100

Manual Version 1.00

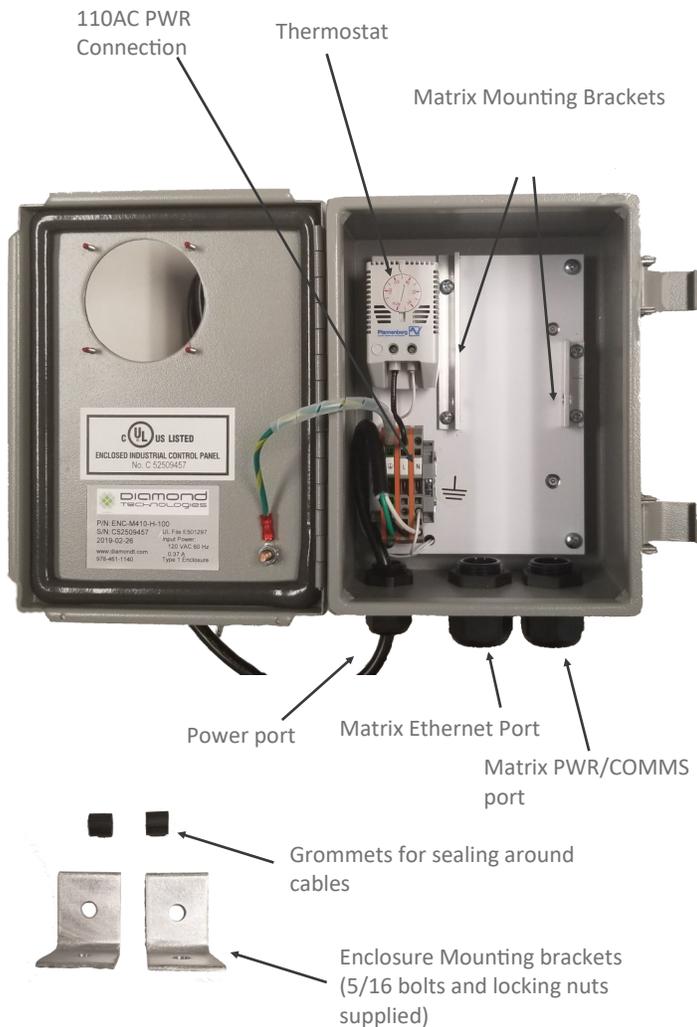


The Diamond Technologies ENC-M410-H-100 is an Industrial NEMA 12 heated enclosure for use with the Datalogic Matrix 410N barcode scanner. The enclosure is designed to allow the use of the Matrix 410N in humidity controlled freezers with a temperature below 32F and as low as -20F (-28.8 degrees C). The enclosure includes L shaped internal mounting brackets specifically designed to accommodate the Matrix 410N. The enclosure also includes L shaped brackets for enclosure mounting along conveyors or other fixed structures. The ENC-M410-H-100 features include internal thermostat, 110V AC power cord, cord sealing grommets, polycarbonate optic grade scanner window, locking latches, and (2) ports for ethernet and power/communication connections to the Matrix 410N. The enclosure is UL 508 rated.



WARNING: The Matrix ENC-M410-H-100 includes a flexible heater. The heater is located behind the back mounting plate. The heater is controlled by the on board thermostat which is set to 50 degrees F at the factory. The heater can achieve surface temperatures of up to 500°F (260°C). Caution should be taken to avoid contact with the heater or surfaces in contact with the heater or burns may occur. The enclosure should be mounted to avoid contact with the external enclosure surfaces. The enclosure is designed to be used in a Freezer environment with temperatures below 32 degrees F and as low as -20 F. The enclosure thermostat should be set at a temperature to ensure the internal temperature of the enclosure is between 40 to 100 °F (7.2 to 37.7 degrees C) or damage to the Matrix 410N may occur.

System Overview



Assembly Procedure

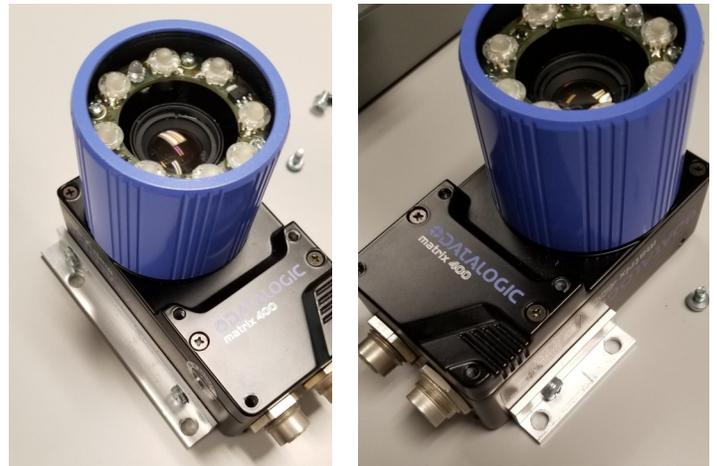
1

Remove the (2) Matrix 410N mounting L brackets from the enclosure by removing the 4 screws as shown below.



2

Place Matrix 410N on a flat level surface and affix the L mounting brackets to the Matrix using the screws that came with the Matrix 410N scanner. Note the smaller of the brackets will only require 1 screw



3

Insert Matrix 410N Ethernet and PWR/COMMS cables through the appropriate cord grips on the ENC-M410 enclosure. Hold the Matrix 410N over the enclosure and attach the Ethernet and PWR/COMMS cable to the Matrix 410N scanner.



4

Insert the Matrix 410N into the enclosure and secure the scanner L mounting brackets to the enclosure back panel with the 4 screws.

