



Machine Data Collection Operator Interface (LCD Feedback and Bar Code Reader)

This document outlines the features and functions of the MDC Adapter offered exclusively by Shop Floor Automations, Inc.

Overview

Operator Message Display

Operator message displays are typically placed next to the scanner at the CNC machine. The message display checks the database every few seconds (configurable) and displays the status of the machine.

The message display has a few options in terms of what is displayed. The actual downtime can be displayed or just the status. For example, 'No Material' vs 'Down'.

In addition time can be displayed a few different ways.

The first option is having the display show the last time the display was updated successful. The second option is showing how long the machine has been in the current status. The third option is alternating between the two types each time the display refreshes.

Below is a picture of a sample holder (holders vary) and the message display and the scanner.



Component Enclosure

Depending the products being installed and the capability of the machines there may be quite a few hardware devices requiring power. Units such as the Digi Ethernet units (wired or wireless) have a flexible input range and can deal with some fluctuation in power allowing them to be powered from the 24 volt machine power supply.

However, other hardware such as the scanners, message display, and AC PLC models require 110 volts and 'brick' power transformers for proper operation. The power source and cable management starts becoming an issue. A Component box can be used to consolidate the power, cabling and some of the equipment.

Here is a picture of the component enclosure. The box includes the following:

- Vents for cross airflow
- Brush covered cable entry
- A removable black plate for mounting equipment
- Six power outlets spaced for use with transformers
- 8 foot power cable
- Latchable door that can be pad locked for security

The picture contains a 4 port Digi Serial / Ethernet converter, MDC Adapter, power for the scanner, message display, and Digi. Enclosure dimensions: 14 x 17 x 6



Summary

For more information visit our web site at www.shopfloorautomations.com or call us at (619)461-4000.