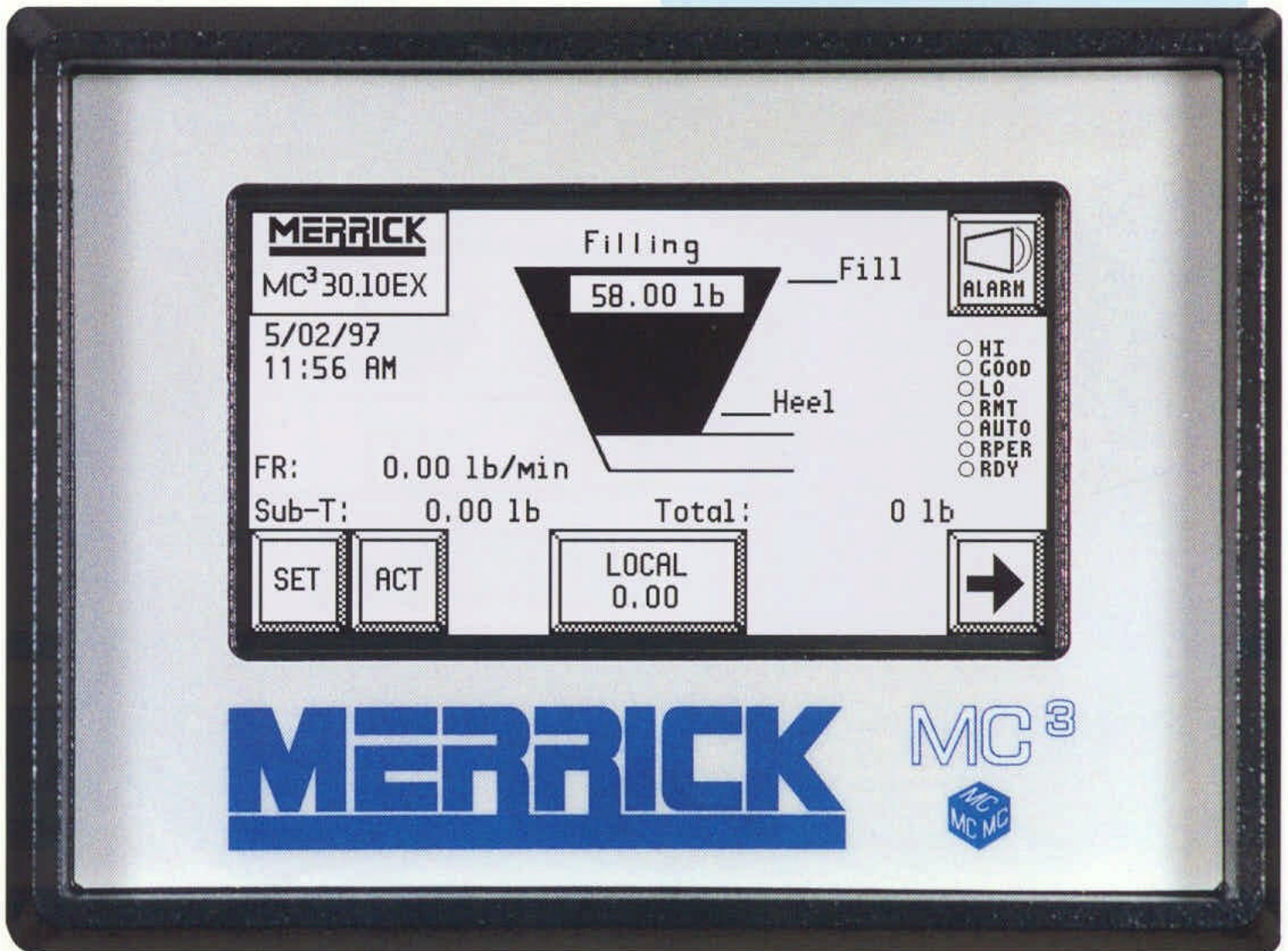


# MERRICK

# MC<sup>3</sup>

TOUCH SCREEN  
CONTROLLER

- ✓ Loss-In-Weight
- ✓ Belt Feeder
- ✓ Belt Scale



*Shown Actual Size (Loss-In-Weight Version)*

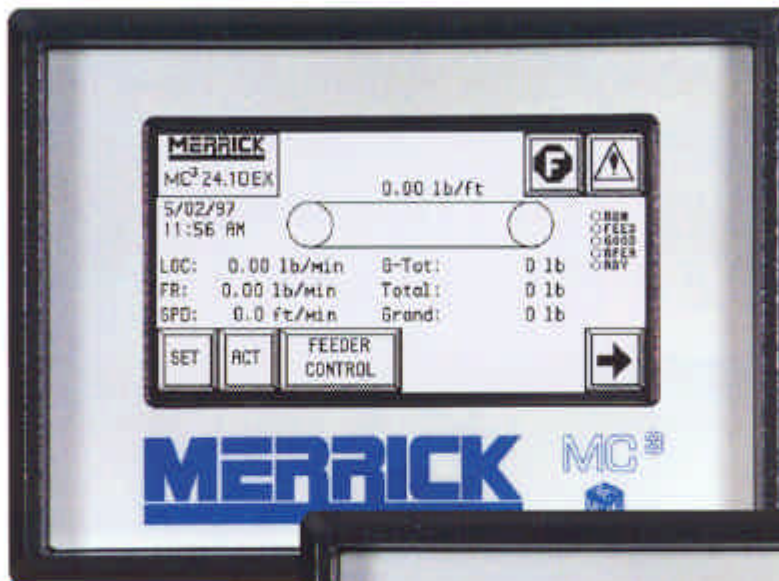
# The World's First Touch-Screen Process Controller For Weighing Applications From The Inventor Of The World's First Weigh Belt Feeder

## User-Friendly Interface

A graphical LCD touch-screen display makes the MC<sup>3</sup> the easiest controller ever to learn and use.

## On-Screen Help

Context sensitive on-line help instructions are available to an operator by simply touching the screen area where help is needed.



## Training Simulator

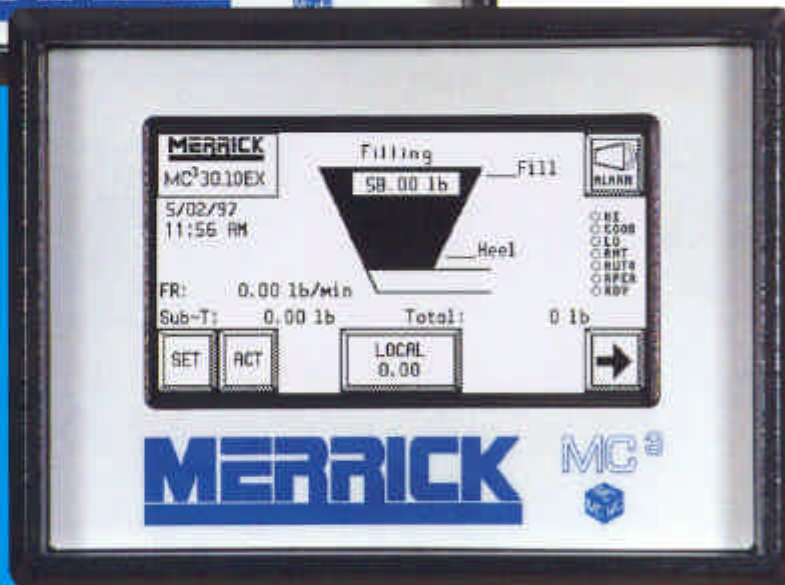
A built in simulator allows new operators to be trained without having the controller connected to an actual feeding or weighing device.

## Limited Selection Keys

Available keys are limited to only those keys which represent valid selections.

## Loss-In-Weight Configuration Offers Unmatched Accuracy

The feature-rich Loss-In-Weight version of the MC<sup>3</sup> provides users with a safe, stable, and easy to use control environment. The MC<sup>3</sup> uses a Confidence Level Update Equation (CLUE) to influence both Fuzzy Logic and PID Control Algorithm parameters. This "self-tuning" insures that the feeding process is always reliable, accurate and repeatable.



## Zero Delay For New Feedrate After Setpoint Change

## Feeder Runaway Eliminated

The MC<sup>3</sup> will control feedrate even if the feeder is bumped or items are placed on the feeder. Unannounced refills are also handled automatically.

## Screw Speed Is Never Locked

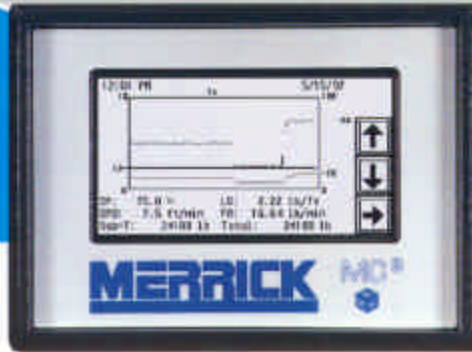
Even during refill and under disturbance.

# Additional Screen Choices Give You Unmatched Flexibility

The graphical displays on the MC<sup>3</sup> Controller can show more data in an organized manner than conventional displays and a variety of screen choices communicate that data in the most efficient way needed.

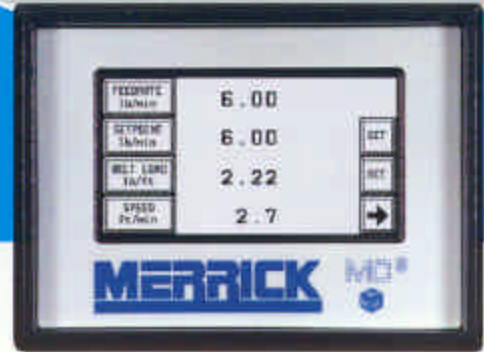
## Trend Display

Graphical display of past and current Process Values such as Feedrate, Belt Load, Belt Speed, Net Weight, etc.



## Numeric Display

A large typeface is used to display current values of user-selectable variables such as Process Values, Totals, Deviation, Output, Date, Time, etc.



## The MC<sup>3</sup> Can Be Configured for Practically any Feeding Requirement

*Static Weighing and Belt Scale Integrators*



*Continuous or Batching Loss-in-Weight Feeders*



*Continuous or Batching Belt Feeders*



## HPAD - A Superior Weigh

**Full 1,000,000 Divisions of resolution applied only to material weight.**

- Higher usable weighing resolution than more expensive digital devices.
- Feed more accurately at lower feedrates.
- Sturdier feeder components can be built without concern for high deadload.

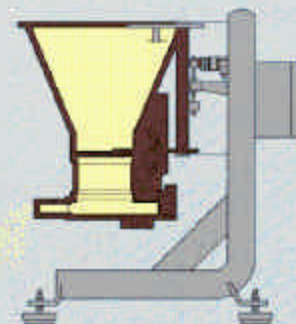
**Eliminates the need for mechanical counterbalancing.**

- Less maintenance for a simpler weighing mechanism (fewer parts).
- Less mechanical influence in weighing (no bearings or pivots to wear).

*Merrick's  
HPAD  
Technology*

### LIVE LOAD (MATERIAL)

*Up to 100% of the 1,000,000 divisions of resolution can be applied to weighing the material.*



*Competition*

### LIVE LOAD (MATERIAL)

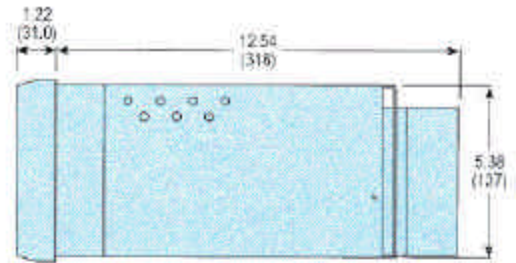
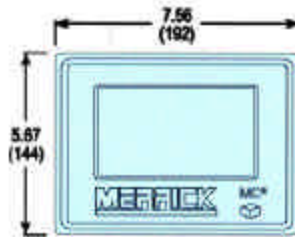
### DEAD LOAD (FEEDER)

*Valuable resolution is lost unnecessarily weighing deadload*

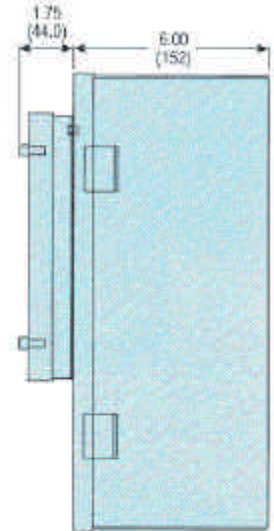
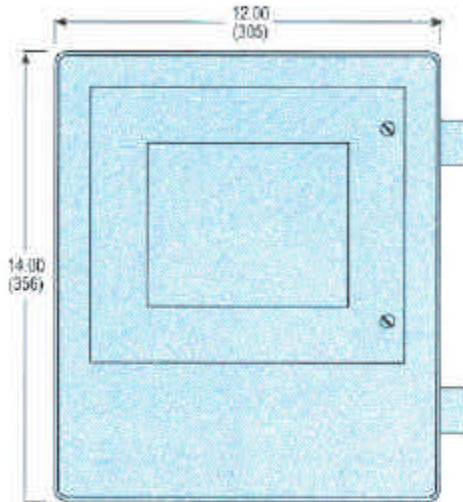
# Dimensions

in inches and (millimeters)

**Panel  
Mount**



**Wall  
Mount**



# Specifications

## ■ Microprocessor

- Intel 80386EX

## ■ Memory

- 512 K of Flash EPROM
- 128 K of Battery Backed SRAM

## ■ Power Supply

- Auto Sensing Power Supply
- 110-240 VAC, 50/60 Hz
- Power Consumption - 23 Watts

## ■ Clock

- Battery Backed Real Time Clock

## ■ Mounting & Enclosure

- Panel mount
- Wall mount (NEMA 12, NEMA 4, or NEMA 4X SS)

## ■ Load Cell Excitation

- 10 VDC

## ■ Display

- Back-Lit Graphical LCD (240 x 180 Monochrome)
- Active Area 120mm (Width) x 64mm (Height)

## ■ Standard Input/Outputs

- 7 Digital Outputs (Up to 28 max. as option)
- 4 Digital Inputs (Up to 16 max. as option)
- 2 Analog Outputs (Up to 4 max. as option)
- 1 Analog Input (Up to 2 max. as option)
- RS-485 and RS-232 Serial Interface

# MERRICK

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