



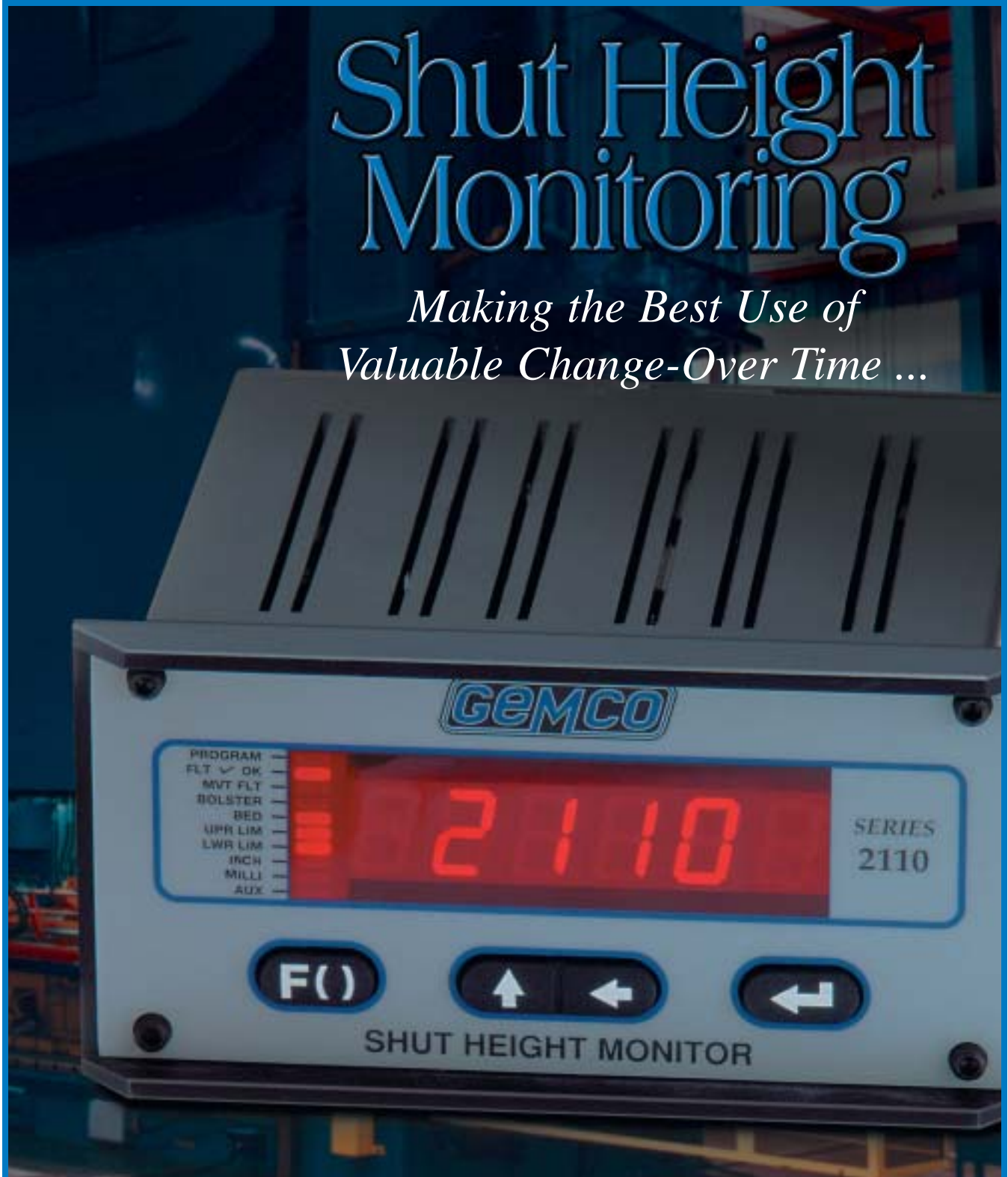
Series 2110

# Gemco™

## Shut Height Monitor

# Shut Height Monitoring

*Making the Best Use of  
Valuable Change-Over Time ...*





# Series 2110 Shut Height Monitoring

## FEATURES

### Hardware:

- Modular Design
- Six (6)/Seven (7) Segment Large Display
- Ten (10) Segment LED Bar Graph
- Two (2) Serial Communication Ports
- Digital Input for Run/Program Selector Switch
- Optional Relay Board
- Variable Pulse L.D.T. Input Module Board
- Control Pulse L.D.T. Input Module Board
- Resolver Input Module Board
- Designed to: UL 508 Specifications



## Options:

- Variable Pulse L.D.T. Input Module Board
- Control Pulse L.D.T. Input Module Board
- Resolver Input Module Board
- Digital Output Module Board
- Optional Relay Board

## Software:

- Four (4) Programming Keys
- Software-Controlled Upper and Lower Limits
- Programmable Bolster Offset
- Programmable Zero Offset
- Programmable Movement Detection
- Programmable Wire Speed (LDT Modules)
- Programmable Count Direction (LDT Modules)
- Programmable Scale Factor (Resolver Module)
- Programmable Negative Overshoot
- Programmable Position "Hold"
- Read Out in Inches or Millimeters
- Password-Protected

## BENEFITS

- Decreases Hit to Hit or Setup Time
- Reduces Scrap During Setup
- Over Travel Limits are Software-Controlled
- Positioning Accuracy of  $\pm .001$  in.

## Convenience and Efficiency.

*Series 2110 Shut Height  
Monitoring System Quickens  
the Setup Time Pace:*

- Faster setup time with very little wasted motion or material
- Reduced down-time and increased running time
- Review, re-tool, and re-fuel

## SPECIFICATIONS

- Power Requirements — 85 - 265 VAC  
50/60 Hz; Internally Fused at 1.5 Amps
- Temperature — Operating: 32° to  
131° F; Storage: 0° to 150° F
- Environmental — Humidity: 5% to  
95%; Non-condensing
- Shock & Vibration — Tested to: MIL-  
STD 810E, Method 514.4, Category 10,  
20 - 2K Hz, 2G sine, 0.04 G<sup>2</sup>/Hz ran-  
dom. To UL 491, SA 19, 10 - 150 Hz,  
10G sine.
- Electromagnetic Compatibility —  
Tested to: IEC 801-2, Level 5  
(Electrostatic discharge requirements);  
IEC 801-4, Level 4 (Electrical fast tran-  
sient/burst requirements); IEC 801-5,  
Level 3,5 (Surge immunity require-  
ments)
- Memory Retention Time — Maintains  
last programmed values for ten (10)  
years without power
- Relay Contact Ratings — All relays  
rated UL & CSA for ¼ HP, 125 to 250  
VAC; 8A 250 VAC, 30 VDC, Shock  
Resistant to 10 G
- Movement Input — 85 - 265 VAC, 12  
mA (rms) maximum; optical isolated to  
3200 VDC/2250 VAC
- Program Mode Key Input — Dry  
Contact; Open Collector (drain) ONLY;  
+5 VDC maximum — Current 0.2 mA
- RS - 232 Output — 115.2 K baud
- RS - 485 Output — 115.2 K baud

**QUALITY PARTS —  
SOPHISTICATED TECHNOLOGY —  
DEDICATED SERVICE**

Ametek engineers, manufactures and markets position sensors and controls for the demanding and harsh industrial environment. Products include Gemco™ linear and rotary position sensors and controls, Industrial Brakes, Catrac™ cable and hose carriers, and B/W Controls™ liquid level controls. Ametek has more than 50 years of experience marketing its products globally.



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