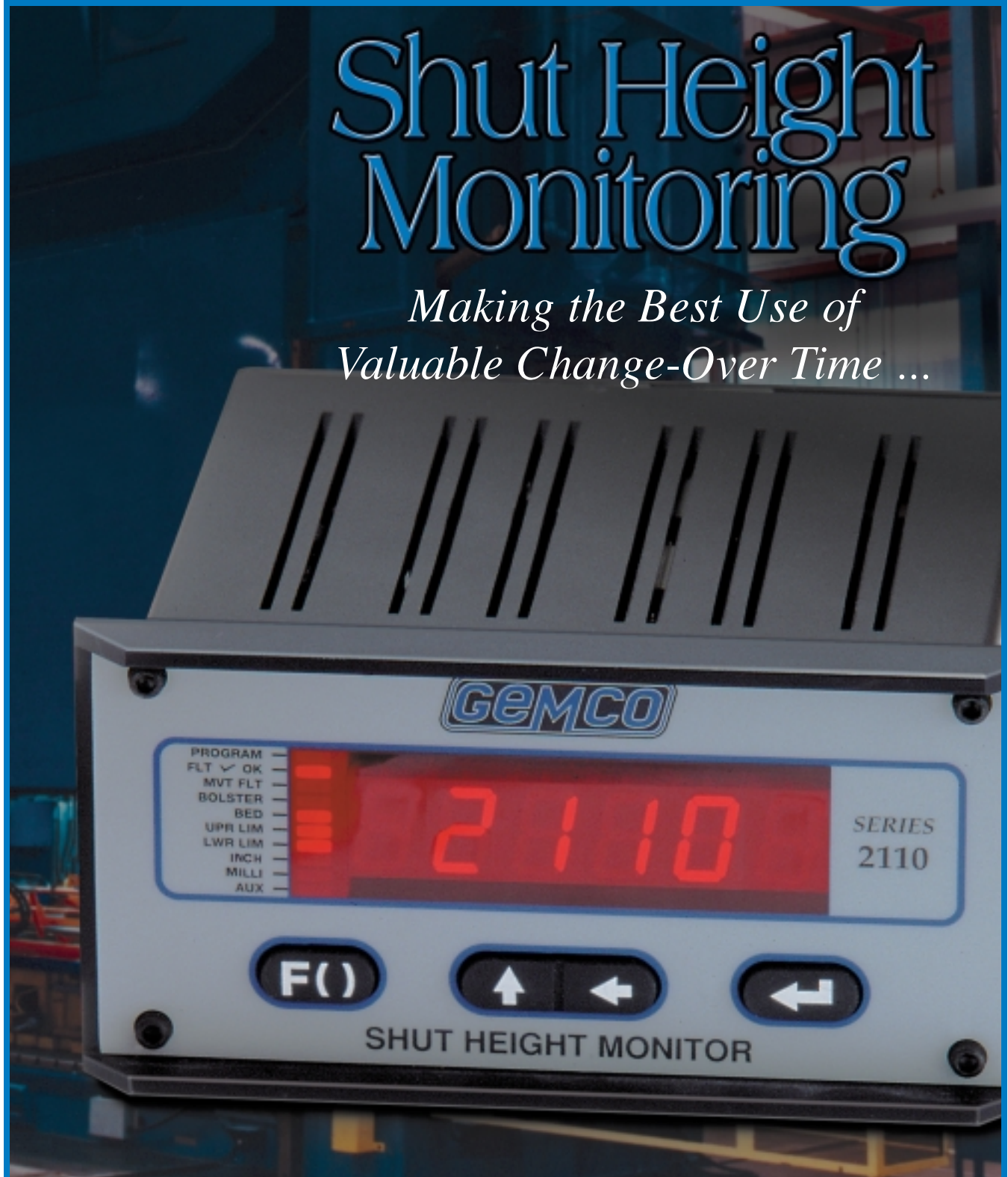


AMETEK[®]
PATRIOT SENSORS

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 G²/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**

Patriot Sensors & Controls Corporation 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. Patriot has more than 50 years of experience marketing its products globally.



1080 NORTH CROOKS ROAD • CLAWSON, MI 48017 USA
800-635-0289 • 248-435-0700 • Fax 248-435-8120
www.patriotsensors.com • www.ametek.com