


-  US LISTED
- USER SCALABLE READOUT OF mA OR DCV SIGNALS
- UL RATED TYPE 1, 12 ENCLOSURE
- PUSH-BUTTON CONFIGURATION
- 10 AMP S.P.D.T. RELAY CONTACTS (to 60°C ambient)
- CONFIGURE RELAY AS CONTROL OR ALARM

### GENERAL DESCRIPTION

The Model 3620 is an accurate and versatile indicator. The enclosure is UL rated type 1 and 12, and may be surface mounted or panel mounted with an optional kit. Operating temperature range is from -40° to 70°C. The unit is AC powered, and provides a regulated 24V, 25mA supply for loop power.

The standard input signal is a 4/20mA loop. Units are available that accept either a 0/20mA, 0/5V, 1/5V, or 0/10V input signal. The process value is indicated with a four digit LED display, which provides easy viewing under all ambient light conditions. The display is capable of indicating -1999 to 9999, with a decimal point placed to the right of any digit. Scaling the display to indicate the desired process value is accomplished with the front panel buttons.



- RELAY ALTERNATION
- 4 DIGIT 0.5" LED DISPLAY

The 3620 is an ON/OFF controller that provides two S.P.D.T. relays with 10 Amp contacts. The relays are controlled by field configurable set and reset points. These points are entered by using the front panel buttons while viewing the value of the control point on the display. This allows the control point to be precisely set to a known process value, rather than an ambiguous input signal level. The independently controlled set and reset points allow a 100% adjustable deadband. A switch changes the unit from a straight controller to an alternating controller. Another switch configures the relays to act as a control (relay energized when set, relay goes to the reset state on loss of power) or an alarm (relay energized when reset, relay goes to set state on loss of power).

# SPECIFICATIONS MODEL 3620

**UL File:** E229432

**Environmental:** the polycarbonate enclosure and cable grip is rated NEMA 4X by their manufacturers. The 3620 is UL Listed to environment rating types 1 and 12

**Approximate dimensions:** 5.5" W X 3.2" H X 2.7" D

**Electrical Connections:** screw clamp terminals accept 24 to 14 AWG wire. 7 lb. in. Max Terminal Torque.

*Top Board:* Signal wiring and transmitter P.S.  
*Bottom Board:* power, relay contacts

**Display:** Four bright red LED, 0.54 inch high, 7 segment numeric characters. Display numeric range is -1999 to 9999 counts.

## STANDARD INPUTS

Coding, Input span	Saturation Input	Input Impedance
-4/20mA	25mA	10Ω
-0/20mA	25mA	10Ω
-0/5V	6V	1MΩ
-1/5V	6V	1MΩ
-0/10V	11V	1MΩ

**NON-STANDARD INPUTS** Contact factory with specific requirements. Acceptable DC input signals have a minimum span of 100mVDC up to a maximum span of 100VDC

## DC PERFORMANCE

A/D Resolution: 16 bits  
Basic Accuracy: ±0.05% of full scale input range  
Temperature Effect: 0.01% per °C

## A and B RELAYS

**Status Indication:** Front panel LEDs

**Control Points:** each relay has independent trip and reset points that can be set to any value within the numeric range. High or low control is determined by the relative values of the trip and reset points.

**Alternation:** enabled with pole 2 ON

**Action:** Relays can act as control (pole 1 off, closure between P and NO on trip) or alarm (pole 1 ON, closure between P and NC on trip)

**All Relay Contacts:** SPDT (form C)

Max 60°C ambient: 1 ph; 10A: 240VAC; 8A: 24VDC; 1/3HP @ 120VAC; ½HP @ 240VAC

Max 70 °C ambient: 1 ph; 9A: 240VAC; 7.2A: 24VDC; 1/4HP @ 120VAC; 1/3HP @ 240VAC

**Security:** Pole 6 OFF disables front panel pushbuttons

## POWER

Standard AC input: 85-265 VAC, 1 ph, 50/60 Hz.  
Transmitter power: unregulated 22VDC @ 24mA nominal

**Operating Temperature:** -40 to 70°C

**Mounting:** (Surface mount standard)

- M46 Panel Mount
- M36 2" Dia. Pipe mounting bracket
- M31S 3" SnapTrack mounting bracket
- M31D DIN Rail mounting bracket
- M37 Explosion Proof Housing

**WARRANTY:** 2 YEARS, *Made in USA*

