

- \* **SELECTABLE LINEAR/SQ. ROOT OR CUSTOM 17 PT. LINEARIZATION RESPONSE**
- \* **0.54 EASY TO READ 6 CHARACTER LED DISPLAY**
- \* **14 SEGMENT DISPLAY FOR TRUE ALPHANUMERICS**
- \* **EASILY CONFIGURED**
- \* **10 AMP S.P.D.T. ALARM CONTACTS**



### GENERAL DESCRIPTION

The Devar Model 3019 directly accepts 4/20mA, 1/5V, 0/5V, -10/10V, and 0/10V process signals as an input. Each 3019 is factory calibrated for each of these inputs. Configuring the 3019 for a particular input is as easy as selecting the desired input from a menu.

Direct process indication is easily achieved by setting the display values for two points on the input range. Nonlinear inputs are accommodated by using up to 17 points to describe the linearization curve. Square root extraction is provided as a preprogrammed curve.

The isolated 24VDC power supply can be used to power a loop for an external transmitter. Operating temperature range is from 0 to 70°C.

The 3019 is housed in an 1/8 DIN aluminum housing with a splash proof front panel. The six digit 0.54 inch high LED display provides easy viewing under all ambient light conditions and it's 14 segment alphanumeric display provides plain English prompting during configuration. Four active characters display process values between 9999 and -1999. The fifth and sixth characters can be programmed to display any keyboard character, so blanks, dummy zeros, or letters to provide a process descriptor are available.

Other selectable features include: up to 4 alarm points with 10 amp SPDT contacts, flashing display on alarm, security code lockout, latching relays, process peak and valley, and alarm acknowledgement.

## **SPECIFICATIONS** MODEL 3019

### **INPUT**

Configuration:

0/20mA, 4/20mA, 0/5V, 1/5V, 0/10V, or -10/10V selected from keypad

Open Input Indication:

Indication goes to zero input

Impedance:

Voltage input: > 1 Megohms

Current input: 10 Ohms

### **PERFORMANCE**

Common Mode Rejection: Greater than 120 dB at 50/60 Hz

Normal Mode Rejection: Greater than 64 dB at 50/60 Hz

Temperature Effect Zero:  $\pm 0.01\%$  of reading per °C

Temperature Effect Span:  $\pm 0.01\%$  of reading per °C

Operating Temperature: 0 to 70°C

Failsafe Operation: Relay coils are energized in non-alarm condition, relay de-energizes on alarm or power failure.

### **DISPLAY**

Six bright red LED, 0.54 inch high, 14 segment alphanumeric characters. Four characters are used for process indication, and two characters for dummy zeros or process descriptor or any combination thereof. Display range is -1999 to 9999 counts. Display provides plain English prompts during configuration.

Display Resolution: +9999 to -1999 in 1 count steps

A/D Resolution: 20 bits

### **CALIBRATION**

Accuracy: +/- 0.003% of input range

### **OPTIONS**

-005	0/5 VDC Retransmission
-010	0/10 VDC Retransmission
-105	1/5 VDC Retransmission
-420	4/20 mA Retransmission
-020	0/20 mA Retransmission
-D232	RS-232 Retransmission
-D485	RS-485 Retransmission
-NE4C	NEMA 4 Cover
-NE4S	NEMA 4X Enclosure (1 Unit)
-NE4D	NEMA 4X Enclosure (2 Units)
-NE7	Explosion Proof Housing
-M36G	2" Pipe Mount Kit (NE4S,NE4D,NE7)

### **ENCLOSURE**

1/8 DIN, polycarbonate bezel, aluminum body splash proof front panel  
Dimensions: 1-15/16" H x 3-3/4" W x 6-1/2" D

### **ALARMS**

**Status Indication:** Front panel LED's, flashing display, horn; flashing display and horn active or inactive, menu selectable

**Points:** 0, 2, or 4 independently set trip and reset points (100% hysteresis); Alarm action high or low determined by setting trip and reset points

**Latching:** All alarms can be latching or non latching, menu selectable, reset from keypad

**Audible Alarm:** An audible alarm can be enabled or disabled for each channel during configuration; Options include: **1.** Always sound while in alarm, **2.** Sounds while in alarm but can be reset from keypad, **3.** Sounds during and continues after an alarm condition, must be reset from keypad, **4.** Sounds going into or coming out of alarm, continues sounding until acknowledged

**Contacts:** SPDT (form C) relays; 10 amps, 250 VAC; 8 amps, 24 VDC resistive; 1/3 HP, 120 VAC; 1/2 HP, 240 VAC

### **POWER / VOLTAGE**

**Connections:** 15 position, plug-in terminal block for power and relay contacts; 9 position, plug-in terminal block for input and excitation voltage; 24 to 14 AWG

### **Isolated Supply:**

24VDC at 100 mA (rated, 150mA short circuit limited)  
Isolation strength: 500VAC

**Power Requirement:** 90 to 140 VAC, 50/60 Hz, 10VA

### **SECURITY PASSWORD**

6 digit security password to enter configuration menu, user selectable, enabled or disabled by internal switch setting

### **WARRANTY:**

2 YEARS

Made in USA

### **ORDERING INFORMATION**

#### **MODEL NO.**

3019	indicator only
3019-2	indicator / controller with 2 alarms
3019-4	indicator / controller with 4 alarms

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