

- **SELECTABLE LINEAR, SQUARE ROOT OR CUSTOM 17 POINT LINEARIZED RESPONSE**
- **14 SEGMENT LED DISPLAY**
- **PLAIN ENGLISH PROMPTS**
- **7.5 AMP SPDT CONTROL CONTACTS**
- **4 TO 20 mA, ANALOG RETRANSMISSION AVAILABLE**
- **EASILY CONFIGURED**



GENERAL DESCRIPTION

The Devar Model 3019 is factory calibrated to accept process inputs of 1 to 5, 0 to 5, 0 to 10 and -10 to +10 volts as well as 0 to 20 and 4 to 20 milliamps. Selecting the input range is accomplished using the front panel keypad and the easy to follow configuration menu.

The Model 3019 displays the process input in engineering units. Display configuration, for linear inputs, is easily achieved by entering the values to be displayed at the top and bottom of the input range. Non-linear inputs are accommodated by using up to 16 straight-line segments to describe the input curve. Square root extraction is provided as a pre-programmed curve that can be selected from the configuration menu.

The 3019 is housed in a 1/8 DIN, black anodized, aluminum housing with a splash proof front panel. The six-digit, 0.54-inch high, LED display provides easy viewing under normal and subdued light conditions and its 14 segment alphanumeric display provides plain English prompting during

configuration. Four active characters display process values between -1999 and 9999 and the fifth and sixth characters can be used to display dummy zeros or engineering units. (e.g. 00, FT, IN.)

An isolated 24VDC loop power supply is provided to power an external 2-wire transmitter. The operating temperature range of the 3019 is 0 to 70°C.

Additional features include:

- * Menu driven configuration
- * Plain English prompts
- * Up to four sets of on/off control points
- * Latching or non-latching relays
- * Flashing display and audible alarm functions
- * Security lockout code
- * Sensor failure detection
- * Alarm acknowledgement options
- * Process peak and valley detection

SPECIFICATIONS MODEL 3019

INPUT

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

Impedance:

Voltage Input: > 1 Mega-Ohms
Current Input: 10 Ohms

PERFORMANCE

Accuracy: ±0.01% of input range
Display Resolution: +9999 to -1999 in one count steps
Common Mode Rejection: Greater than 120 dB at 50/60 Hz
Normal Mode Rejection: Greater than 64 dB at 50/60 Hz
Operating Temperature: 0 to 70°C
Temperature Effect Zero: ±0.01% of reading per °C
Temperature Effect Span: ±0.01% of reading per °C

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 descriptors. Display range is +9999 to -1999 counts. Display provides plain English prompts during configuration.

OPTIONS

- 420 4 to 20mA Analog Retransmission
- 020 0 to 20mA Analog Retransmission
- 005 0 to 5 VDC Retransmission
- 010 0 to 10 VDC Retransmission
- 105 1 to 5 VDC 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)

Note: Analog retransmission ranges can be recalibrated in the field.

MECHANICAL

Enclosure: 1/8 DIN, polycarbonate bezel, black anodized aluminum body, splash proof front panel

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

ALARMS

Status Indication: Front panel LED's, flashing display, audible alarm, display and horn options, configured from keypad

Trip Points: 4 independently set, trip and reset points (100% hysteresis); Alarm action high or low determined by respective value of trip and reset points

Alarm Action: All alarms can be set as latching, non-latching, or alternating, configured from keypad

Contacts: SPDT (form C) relays; 1 phase; 7.5 Amps @ 240 VAC/24 VDC; 1/3 HP @ 120 VAC, 7.2 FLA; 1/2 hp @ 240 VAC, 4.9 FLA

POWER

Power Requirements: 90 to 140 VAC, 50/60 Hz, 10 VA
Loop Excitation Voltage: Isolated 24 VDC output @ 100 mA, Current limit 150 mA; Isolation Strength: 150 VAC

SECURITY PASSWORD

Optional 6-digit security password protection

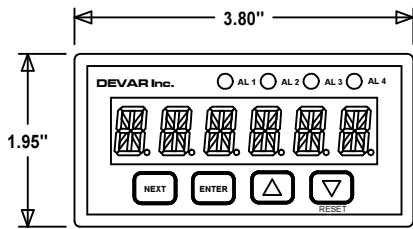
WARRANTY

2 YEARS
Made in USA

ORDERING INFORMATION

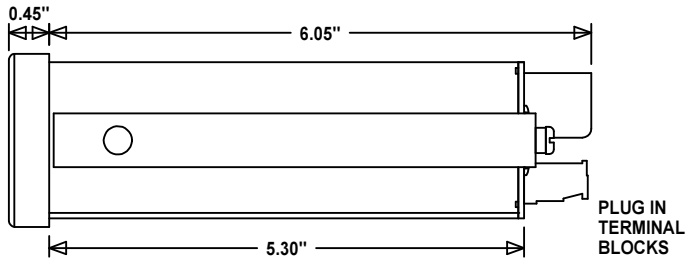
- 3019-0-OPTIONS Indicator only
- 3019-2-OPTIONS Indicator / Controller with 2 alarms
- 3019-4-OPTIONS Indicator / Controller with 4 alarms

GENERAL DIMENSIONS



PANEL CUTOUT

3.622 ^{+0.032"}/_{-0.019"} x 1.772" ^{+0.032"}/_{-0.019"}



PLUG IN TERMINAL BLOCKS

