

# DEVAR Inc.

# pH/ORP Indicator / Transmittter / Controller MODEL 3065

- \* ACCEPTS pH OR ORP PROBES DIRECTLY
- \* HIGH  $10^{13}$  OHM IMPEDANCE (EXTENDS ELECTRODE LIFE)
- \* AUTOMATIC / MANUAL TEMPERATURE COMPENSATION
- \* SINGLE OR DUAL POINT STANDARDIZATION
- \* VISIBLE / AUDIBLE HI-LO ALARMS
- \* 10 AMP S.P.D.T. CONTROL CONTACTS

## GENERAL DESCRIPTION

Imagine! A simple touch of a button and you'll have this pH/ORP Indicator/Transmitter/Controller doing what you want it to do. All is easily done through menu selection and reading the 'plain English' prompts.

The Model 3065 has a high impedance input that directly accepts the output from standard pH and ORP probes through a BNC connector. Each 3065 is factory calibrated for the ideal response of the probes. With one and two point standardization, calibrating of the 3065 to a particular probe is readily accomplished by the front panel controls. The factory calibration may be reloaded at any time.



- \* ISOLATED ANALOG RETRANSMISSION (OPTIONAL)

## Other selectable features include:

- \* Displays pH as 0.00PH to 14.00PH and ORP as -2.500V to 2.500V
- \* Up to 4 sets of on and off point control with 10 Amp S.P.D.T. contacts
- \* The ability to name each control point a pump or an alarm
- \* Flashing of display on trip
- \* Security code lockout with latching and alarm acknowledgement
- \* Sound horn on trip, trip acknowledgement, latch control on trip
- \* Relay Failsafe Polarity

The 3065 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.

## **SPECIFICATIONS** MODEL 3065

### **INPUT**

**Configuration:** (Units & Range)  
pH or ORP selected from keypad

**Impedance:** >10<sup>13</sup> Ohms

### **Temperature Sensors:**

3K Balco, 1 Balco, 1K RTD, or 100 Ohm RTD

### **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:** ±0.01% of reading per °C

**Temperature Effect Span:** ±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 pH description. Display range is 0000 to 14.00 pH. Display provides plain English prompts during configuration.

**A/D Resolution:** 20 bits

### **Process Display Resolution:**

pH	0.01pH
ORP	0.001V
Temperature	0.1°C, °F, or °K

### **INDICATION**

**Reference Stability:** 2.5V +/-15ppm / °C typical

**Accuracy:** ±0.01% of input range

### **Input Signal Calibration:**

User selects either factory, 1 point, or two point standardization

### **Temperature Sensor Adjustment:**

One point adjustment allows correction for lead length and sensor tolerance errors.

**Update Rate:** 2Hz

### **ENCLOSURE**

1/8 DIN, polycarbonate bezel, aluminum body  
Front panel environmentally rated NEMA 4X  
Dimensions: 1-15/16" H x 3-3/4" W x 6-1/2" D  
Panel Cutout: 1.722" X 3.622"

### **CONTROL CHANNELS**

**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); Control action high or low determined by setting trip and reset points

**Latching:** All control channels 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; 6 position, plug-in terminal block for external temperature sensor and retransmission; 24 to 14 AWG. Isolated BNC connector for probe.

**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.**

3065	pH indicator
3065-2	pH indicator / controller with 2 alarms
3065-4	pH indicator / controller with 4 alarms

Select desired options and add to model no. code:

### **OPTIONS:**

-005	Analog Retransmission, 0/5V calibration
-105	Analog Retransmission, 1/5V calibration
-010	Analog Retransmission, 0/10V calibration
-020	Analog Retransmission, 0/20mA calibration
-420	Analog Retransmission, 4/20mA calibration
-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)

## **DEVAR Inc.**

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