

## 7096 pH/ORP Analyzer

*Unmatched Performance and Value for Your Basic pH Needs*

When pH is critical and value is a priority, the 7096 microprocessor-based analyzer offers basic, economical pH/ORP measurement and control. The analyzer ensures accurate and reliable pH/ORP measurements, while the 1/4-DIN, NEMA 4 front-panel design makes the analyzer ideal for OEM applications where panel space is limited.

The 7096 features an easy-to-read LCD display to make monitoring and alarming simple. The analyzer's electrode inputs allow you to select the best electrode for your application—glass pH, ORP, or Durafet® pH electrode. A quick-disconnect cable, available with the glass and Durafet pH electrodes, minimizes installation and electrode replacement time. A user-programmable security lock prevents accidental changing of settings or calibration. An optional isolated 4-20 mA current output or pulse frequency output may be used for transmission of data to a recorder or distributed control system. The output signal can be scaled to represent any range of pH or ORP.

### Precise Control Saves Money

The 7096 Analyzer features proportional control, providing more rapid batch treatment than typical ON/OFF control. Proportional control can also improve efficiency of pretreatment in continuous neutralization systems. Acid or base may be controlled by an individually adjusted proportional band limit to best match the reagent feeder to the process. Precise reagent control results in processes that use less reagent, significantly reducing total operating costs.



### Rugged, Reliable, and Fast

Durafet pH electrodes are ideal for use with the 7096 Analyzer. The patented Durafet, non-glass pH electrode uses ion-sensitive field effect transistor (ISFET) technology. This technology makes the Durafet electrode

more rugged and nearly unbreakable, and also ensures a longer life and faster response speed than traditional glass electrodes. The Durafet pH electrode design is perfect for wastewater applications, and the Sanitary Durafet electrode design is accepted by 3-A for the food and dairy industries.

### Keep Data Secure

The EEPROM backup system retains parameters during power loss or power surges to protect valuable information and ensure application integrity.

### Protect Your Process

The advanced probe diagnostics of the 7096 Analyzer prompt the user to replace the probe when it fails—an extremely important security feature for critical processes in which probe failure could upset the process.

### Simplified Setup

The monoplanar front panel features 12 keys for pushbutton entry and audible feedback, making the analyzer easy to set up. Calibration is simplified through one- or two-point adjustments with auto-buffer recognition.

## Condensed Specifications

Case	1/4 DIN, 3.75 in. (95.25mm) deep	
Display	LCD displays pH or mV, temperature, alarm conditions, alarm setpoints, calibration, diagnostics, output setpoints, security status	
Keyboard	Monoplanar front panel with 12 pushbutton entry keys and audible feedback	
Display Ranges	pH:	0 to 14
	mV:	-1999 to 1999
	Temp:	0.00° to +110.00°C
Accuracy (+/- Digit)	pH:	+/- 0.01
	mV:	+/- 0.1%
	Temp (0-100°C):	+/- 0.2°C
	ATC (0-110°C):	+/- 0.2°C
Temperature Compensation	Auto:	0 to +110.0°C
	Manual:	0 to +110.0°C
Automatic Buffer Recognition	4.01, 6.86, 9.18	
Security	All user-entered values and calibration can be protected by a four-digit security code	
Alarms	Two SPDT alarm relays assigned to high and low alarms. User-adjusted alarm setpoint hysteresis	
Controls	Proportional controller with current-adjusting-type (CAT) output or pulse-frequency-type (PFT) output	
Output Signal	Current output: scaleable 4 to 20 mA output between setpoints	
Power Source	115 VAC, 230 VAC +/-15%	

*Specifications are subject to change without notice.*

For more information on the 7096 Analyzer/Controller, as well as other Honeywell analytical instrumentation, contact your local Honeywell representative. Or visit our World Wide Web site at [www.iac.honeywell.com](http://www.iac.honeywell.com). Or in the U.S. call 1-800-288-7491.

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Honeywell Inc.  
<http://www.iac.honeywell.com>

U.S.A.: Honeywell Industrial Automation and Control, 16404 North Black Canyon Hwy., Phoenix, AZ 85053  
 Canada: The Honeywell Centre, 155 Gordon Baker Rd., North York, Ontario M2H 3N7  
 Latin America: Honeywell Inc., 480 Sawgrass Corporate Parkway, Suite 200, Sunrise, Florida 33325  
 Japan: Industrial Operations Tokyo, 4-28-1 Nishi-Rokugo Ohtu-ku, Tokyo 144, Japan  
 Asia: Honeywell Asia Pacific Inc., Room 3213-3225, Sun Hung Kai Centre, No. 30 Harbour Road, Wanchai, Hong Kong  
 Pacific Division: Honeywell Pty Ltd., 5 Thomas Holt Drive, North Ryde NSW Australia 2113  
 Northern Europe and Southern Africa: Honeywell Ltd., Honeywell House, Arlington Business Park, Bracknell, RG 12 1EB, U.K.  
 Central Europe: Honeywell A.G., Kaiserleistraße 39, 63067 Offenbach, Germany  
 Western and Southern Europe: Honeywell S.A., Avenue de Schiphol 3, 1140 Brussels, Belgium  
 Eastern Europe: Honeywell Praha, s.r.o., Budejovicka 1, 140 00 Prague 4, Czech Republic  
 Middle East: Honeywell Middle East Ltd., Khalifa Street, Sheikh Faisal Building, Abu Dhabi, U.A.E.