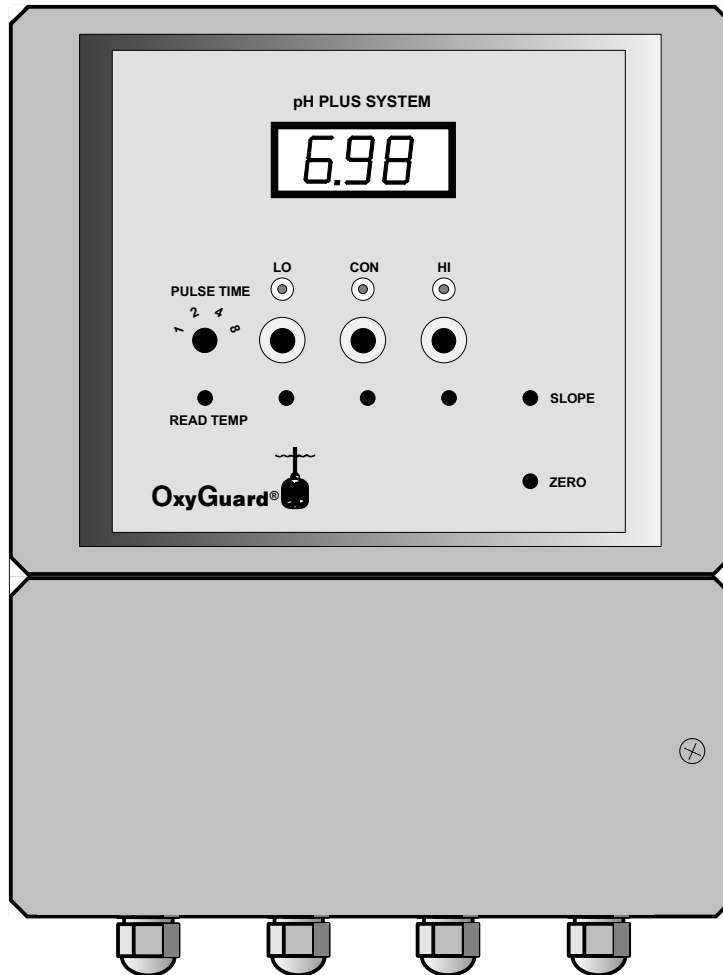


OxyGuard pH Plus

pH Measurement Transmitter with Built-in Controller

pH Measurement Transmitter



The OxyGuard pH Plus is a single channel pH measurement and control transmitter with automatic temperature compensation. It has built-in pulse controller, 4-20 mA analogue output and both high and low alarm outputs and is intended for use as a pH meter, monitor and controller in industrial and other uses.

As with all OxyGuard pH systems, a system using the pH Plus is not prone to problems caused by moisture or electrical noise. The latter is solved so effectively that ordinary screened cable can be used between the probe and transmitter.

pH Plus is used with an OxyGuard pH probe. There are several types, for both simple and more demanding measurement tasks in a large variety of mounting forms.

The OxyGuard pH Alpha is available for users needing a primary pH measurement device without alarm and control functions.

Technical Information

Technical Advantages

This system is a no-compromise pH measurement and control system. The unit is built into a solid, waterproof metal cabinet with a clear plastic lid covering the front panel. Adjustments are situated on the front panel - "SLOPE" and "ZERO" for calibrating the electrode, "LO" "HI" and "CON" for the alarm and control output set points and "PULSE TIME" to set the pulse time of the control output. A set point value is indicated on the display when the pushbutton under the appropriate set point adjustment is depressed. Temperature (if measured) is displayed when a fourth pushbutton is pressed. Three red LED indicators show when an alarm or control output is active.

The unit can be used with or without a temperature measurement. When used with a temperature measurement the unit automatically compensates for the temperature error of the pH electrode. The measured temperature is shown on the display when the "READ TEMP" pushbutton is pressed. When used without a temperature measurement the temperature at which pH measurements are made is set using a small trimpotentiometer behind the front panel.

Probe

The **OxyGuard pH Plus** is designed for use with the range of **OxyGuard pH Probes**. These are available in two main categories. Light-duty probes have gelled electrolyte combination electrodes that are suited to the more "harmless" process fluids. Heavy-duty probes have combination electrodes to which liquid reference electrolyte is fed continuously, extending probe lifetime in most "difficult" fluids. Each is available in a variety of immersion, submersion and flow-through versions in different materials - they are described in separate brochures. All OxyGuard pH probes are designed so that moisture problems are eliminated, and the inclusion of an impedance converter immediately above the electrode effectively prevents electrical noise problems. The result is an accurate, very reliable and exceptionally easy to use system.

OxyGuard pH Alpha

The pH Alpha is identical to the pH Plus except that it does not have alarm or control outputs.

Specifications

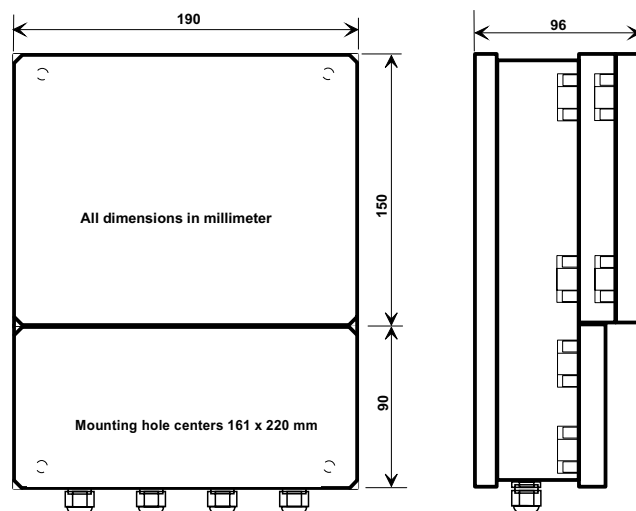
Construction:	Cast metal enclosure with front panel with display and adjustments. Waterproof to IP65.
Dimensions & weight:	190 x 240 x 100 mm (WxHxD), approximately 3 kg.
Supply:	230, 110 or 24 VAC, specify on order, 20 VA.
Alarm & Control Outputs:	1 potential-free changeover contact each. Activate on rising or falling signal as ordered.
Control Output:	Period 9 sec, on (pulse) time variable from 1 to 8 sec.
Operating temperature:	-20 to 60°C.
Measuring ranges:	pH 0-14 (pH 2-12 on request).
Accuracy:	Depends on calibration.
Repeatability:	Better than 0.25%.
Transmitter non-linearity:	Less than 0.1%.
Analogue Output:	4-20 mA, isolated from input. 0-20 mA on request.

Standard Accessories

1 trimpot screwdriver. 1 connection box
Spare fuses.

Ordering Information

J03: pH Plus WITHOUT probe or electrode.



J03 pH Plus Brochure gb 0501 Data subject to change without notice