Controlador para Piscina con Bombas Dosificadoras Integradas y Kit de Montaje en Línea

Description

Controller Overview

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HI902C Angled

Multiple Configurations

The controller is available in one oftwo configurations: an in-line model which allows for directinstallation of the probe and chemical injection fittings into existingpiping (BL120-10) or a panel mounted system with a bypass flow cell (BL120-20). The bypassflow cell allows for calibration and maintenance of the probe withouthaving to stop the recirculation pump.

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Digital Combination Probe

The HI1036-1802 is a digital probe thatmeasures pH, ORP, and temperature. This probe also incorporates apotential matching pin. The pin is considered the ?earth ground?connection and is used to prevent ground loop effects from causingerratic readings and damage to the system.

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Dosing & Control

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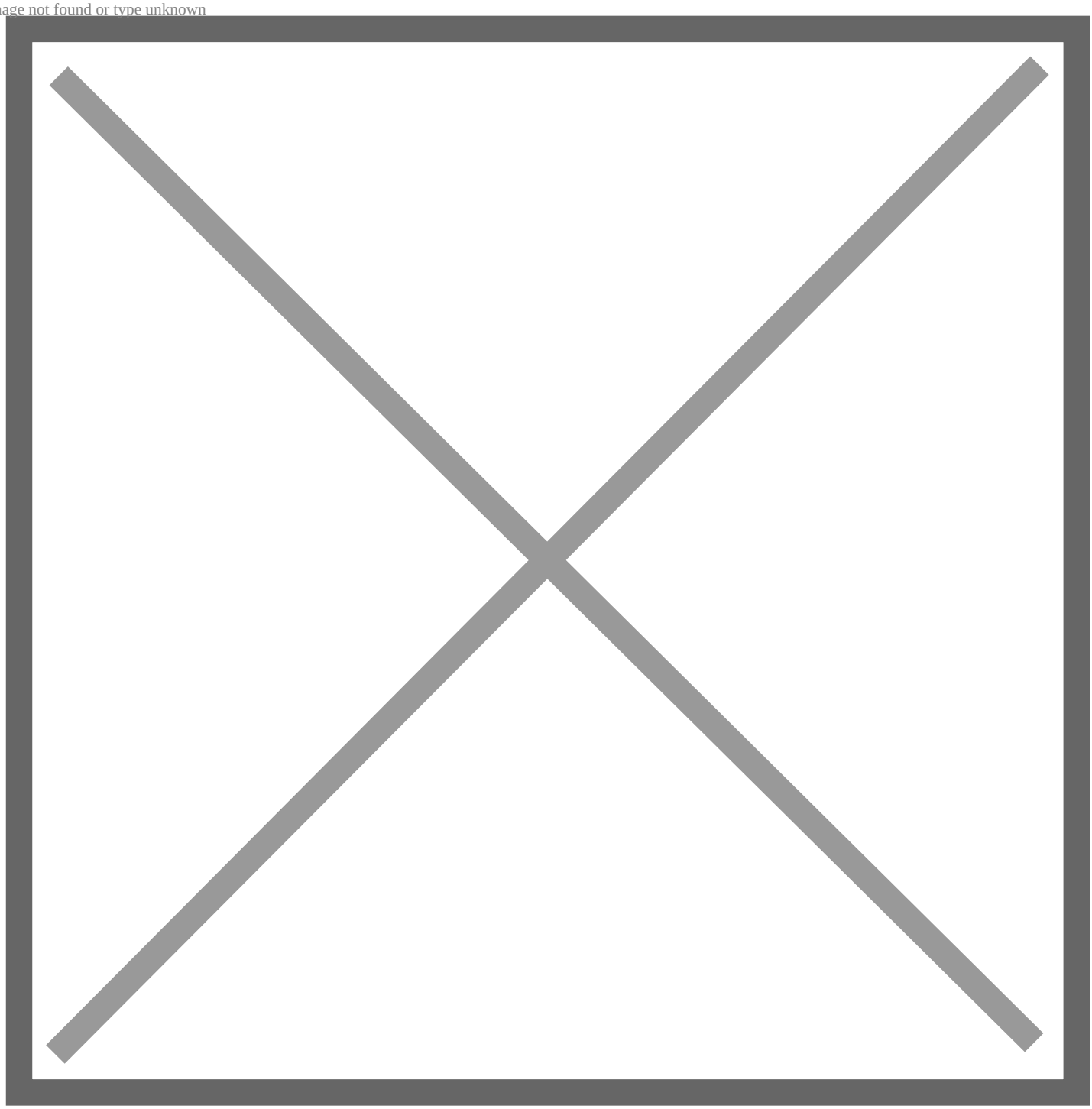

Peristaltic Dosing System

The BL120 is equipped with two peristaltic dosing pumps withreplaceable chemical resistant tubing. When using a diapHragm pump,chlorine gas formed from outgassing can collect in the pump headresulting in the pump losing its prime; the buildup of chlorine gas isnot a problem with peristaltic pumps that use rollers and tubing.

Proportional Pump Control

The BL120 features proportionally controlled dosing pumps. Based onthe sensitivity of the process to chemical addition, these controllersallow the user to adjust a proportional band. This setting determinesthe amount of time that the pumps are dosing as a percentage of thedeviation from the set point allowing for very fine control inmaintaining the desired set point.

Adjustable Flow Rate

The flow rate from the dosing pumps is adjustable from 0.5 to3.5L/h. Larger bodies of water require more chemical to be dosed thansmall bodies since it takes more chemical to realize a change in thereading. The adjustable flow rate, like the proportional band, allowsfor better control in maintaining a desired set point.

ORP Dosing Consent

With chlorine disinfection there is an inverse relationship betweenpH and ORP. As the pH level increases, the ORP level decreases. TheBL120 utilizes a dosing consent feature that will not dose chlorineuntil the pH value is first corrected since it is possible to have alow ORP value even though there is sufficient chlorine. The dosingconsent feature prevents wastage of chemicals and avoids a higher thannecessary chlorine concentration.

Connections & Display

BL121 Display

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BL121 Display

Circulation Pump Monitoring

An inline flow switch or amechanical relay connected to the recirculation pump power sourcemay be connected to the hold input of the BL120. With no flow orwhen no power is applied to the recirculation pump, the holdcircuit disables the dosing pumps. This will prevent any dosing ofchemical when there is no movement of water in the system.

Multifaceted Display

The versatile display of the BL121allows for three screen modes. The LCD can display all threeparameters at one time, a 3-second cycle of single parameters, or areal-time plot screen with options for parameter selection,zooming, and log recall.

Programmable Alarm System

Hanna controllers allow users toenable or disable the low and high level of alarms for allparameters. When an alarm is activated, all dosing will stop.The alarm system also offers overdosing protection if the valueis not corrected within a specified time interval then themeter will go into alarm status.

Multicolored LED Indicators

The BL120 offers multiple LEDindicators for status, servicing, and pump operation. TheSTATUS LED changes color based on operational state; green whensetting are in range, yellow when user intervention isrequired, and red for problems. The SERVICE LED indicates anyalarms and process errors experienced by the controller.

Communication & Security

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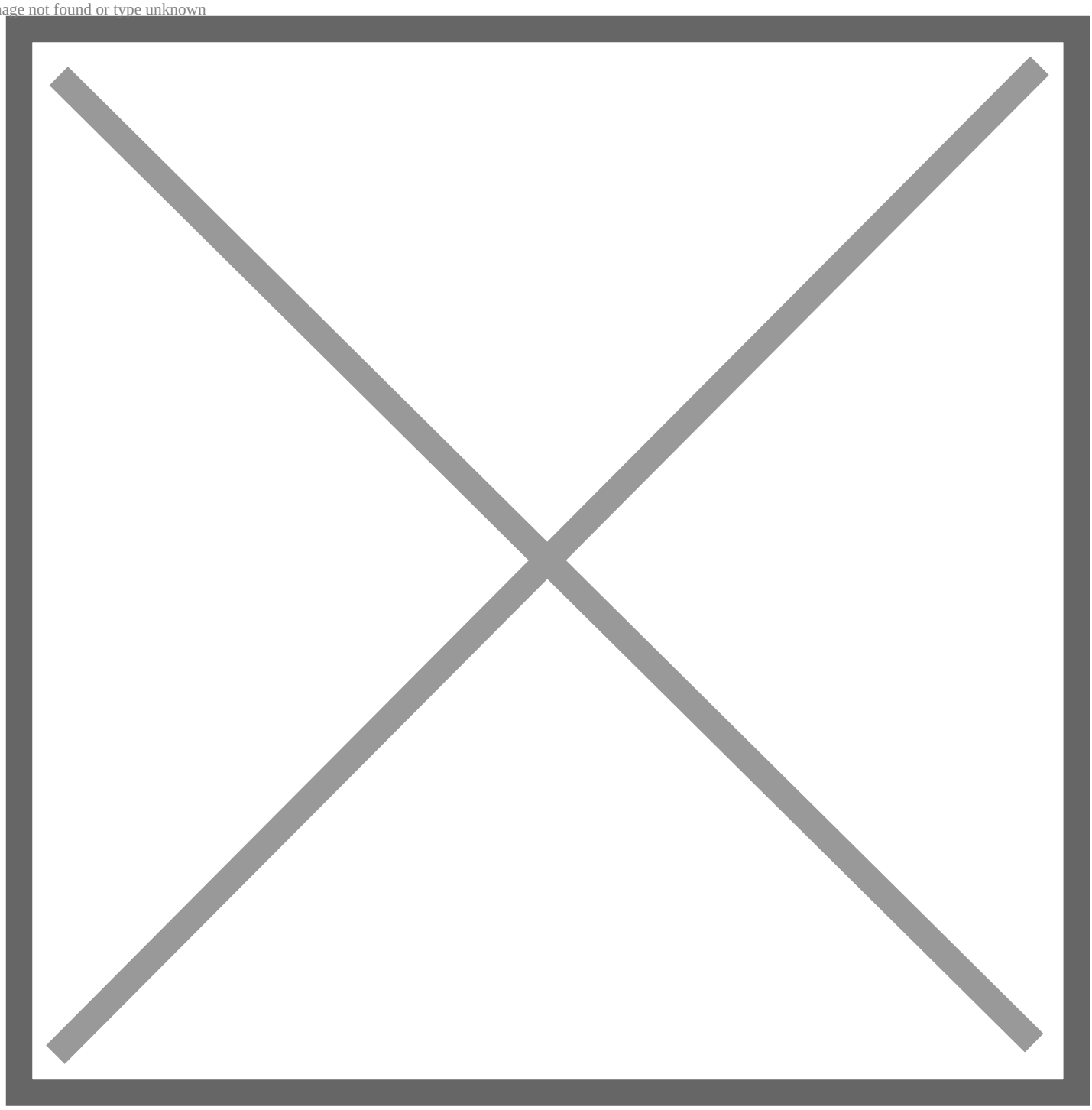

Automatic Logging

The readings for each parameter are automatically logged every10 seconds. A new log is started each time the instrument

iscalibrated or at the start of a new day. Logged data include pH,ORP, and temperature values, last calibration data, setupconfiguration, and any event data. Each log is saved as a .csv filefor easy transfer.

USB Connectivity

For review and storage the users can easily transfer data to aPC using a flash drive and the USB port.

Password Protection

Hanna’s BL120 controller features a password protection solutionthat offers restricted access to calibration, setup, and review oflogged data. The password can be set and enabled/disabled duringgeneral setup of the instrument.