



BL7916 pH Controller and Pump

- pH controller and dosing pump
- ± 0.01 pH accuracy
- Isolated 4 to 20 mA recorder output.
- Proportional dosing
 - Slows the pump down when the measured pH level approaches the set value, which ensures precise dosage and avoids costly waste of chemicals due to overdosage.
- Alarm contact
 - Activated whenever the pH value varies more than 2 pH units from the set point.
- Auxiliary contacts
 - Allow the user to attach a mixer or priming pump that is activated only when the pump is dosing.
- PVDF, FPM/FKM and PTFE materials
 - Used for all parts that come into contact with liquid.

Specifications

BL7916

Range	0.00 to 14.00 pH
Resolution	0.01 pH
Accuracy (@25°C/77°F)	± 0.01 pH
Flow Rate	see table
Input Impedance	10^{12} Ohm
Dosage	proportional, acid or base, user selectable
Dosing Contact	1 isolated, 2A, max. 240V, resistive load, 1,000,000 strokes
Alarm Contact	1 isolated, 2A, max. 240V, resistive load, 1,000,000 strokes
Calibration	offset: ± 1 pH with trimmer; slope: 85 to 115% with trimmer
Recorder Output	4-20 mA (isolated)
Power Supply	BL 7916-1: 115V $\pm 15\%$; 50/60Hz (40W); BL 7916-2: 230V $\pm 15\%$; 50/60Hz (40W)
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	221 x 142 x 181 mm (8.7 x 5.6 x 7.1")
Weight	5 kg (11 lb.)
Ordering Information	BL7916-1 is supplied with discharge and suction valves, polyethylene tubing, 115V power cable and instructions BL7916-2 is supplied with discharge and suction valves, polyethylene tubing, 230V power cable and instructions

BL7916 PRESSURE/FLOW

BAR (PSI)	LPH (GPH)
0.5 (7.4)	13.3 (3.46)
1.0 (14.7)	11.7 (3.04)
2.0 (29.4)	10.1 (2.63)
3.0 (44.1)	9.0 (2.33)
4.0 (58.8)	7.8 (2.03)

For complete list of pH calibration and electrode solutions, see section 3