

HI 8711 Dual Output pH Controller

SPECIFICATIONS

Range

0.00 to 14.00 pH

Resolution

0.01 pH

Accuracy (@20°C/68°F)

HI 8711E: ± 0.02 pH

HI 8711T: $\pm 0.5\%$

Input

HI 8711E: high impedance 10^{12} Ohm

HI 8711T: 4-20 mA

Calibration

offset: ± 2 pH with $\Delta 0$ trimmer;

slope: 80 to 110% with slope trimmer

Temperature Compensation

fixed or automatic with Pt100,
from 0 to 100°C (32 to 212°F)

Recorder Output

0-20 mA or 4-20 mA (isolated)

Setpoint Relay

2, isolated, 2A, Max. 240 V, resistive load,
1,000,000 strokes

Alarm Relay

1, isolated, 2A, Max. 240 V, resistive load,
1,000,000 strokes

Power Supply

115/230 $\pm 10\%$ VAC; 50/60 Hz

Enclosure

black anodized aluminum body; front and back
with ABS; transparent splash-proof front cover

Environment

-10 to 50°C (14 to 122°F);
RH max 95% non-condensing

Panel Cutout

141 x 69 mm (5.6 x 2.7")

Weight

1 kg (2.2 lb.)



- Dual setpoint with two independent dosing outputs
- Auto-diagnostics to verify offset and slope calibration and electrode contamination/deterioration
- User-selectable alarm band
- Two models to accept direct input from electrode or transmitter
- Operational mode LED indicators

This instrument allows the selection of two setpoints with two independent outputs for acid and alkaline dosages. The self-diagnostic features verify the calibration values (offset and slope) and the electrode status.

The alarm interval can be set to activate the alarm when the measured value differs from the setpoint more than the selected tolerance (0.1 to 3 pH).

Two versions are available: HI 8711E with direct input signal from a pH electrode and HI 8711T with analog input from a transmitter. The output configuration for connecting a recorder or a PLC can be chosen between 0-20 or 4-20 mA.

The front panel is protected behind a transparent splash-proof cover.

ORDERING INFORMATION:

The HI 8711 series is supplied complete with mounting brackets and instructions.

Input from electrode

HI 8711E020 with 0-20 mA recorder output

HI 8711E420 with 4-20 mA recorder output

Input from transmitter

HI 8711T020 with 0-20 mA recorder output

HI 8711T420 with 4-20 mA recorder output

ACCESSORIES:

- HI 7004/1L pH 4.01 buffer solution, 1 L bottle
- HI 7007/1L pH 7.01 buffer solution, 1 L bottle
- HI 7010/1L pH 10.01 buffer solution, 1 L bottle
- HI 8427 pH / ORP electrode simulator
- HI 931001 pH / ORP electrode simulator with display

HI 8711T only

HI 8614 pH transmitter

HI 8614L pH transmitter with display

For a complete range of pH electrodes, see pages 63-71