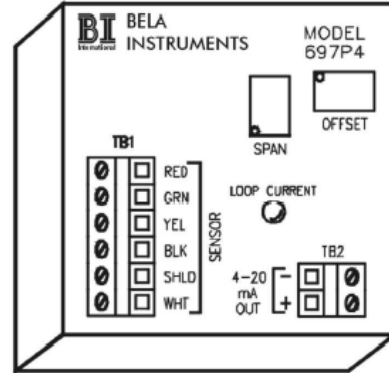
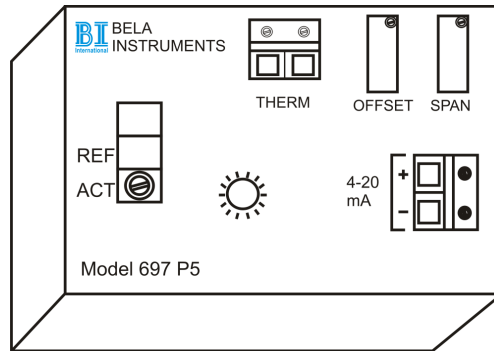


Models 697 Non-Indicating Two Wire pH and ORP Transmitters



- **Simplified Two-wire Hookup.**
- **Calibration Adjustment Capability.**
- **Converts/Transmits Measured Values**
- **To a Standard 4-20 mA Output.**
- **Accepts Most Types of Sensors.**
- **Optional NEMA 4X Enclosures.**

Specifications : _____

pH Transmitters

Operational:

Measuring Range.697P0,P1,P2,P4,P5..... 0-14pH
 697R0,R2..... -1000 TO + 1000 mVDC

Ambient Conditions.....-4 to + 122°F (-20 to +50°C), 0 to 100% relative humidity, non-condensing

Sensor-to-Transmitter Distance
 Model 697P1,P2,and 697P5.....10 ft. (3 m) maximum with combination pH/ORP sensor
 Model 697P0, P4,R0 3000 ft. (914 m) maximum with Differential Electrode Measurement Technique (DEMT) pH/ORP sensor

Power Requirements.....15 to 40 volts DC, connections via terminals

Temperature Compensation.....697P.....Depending on model; adjustable, automatic or fixed (see page 2 for details)
 697R..... None

Insertion loss @ 20mA ...697P5, 697R2..... 8.0VDC

Maximum loop Resistance ...697P5, 697R2 $\left[\frac{\text{Power Supply voltage} - \text{Insertion Loss}}{20} \times 1000 \right] \Omega$

Output Transmission Distance.....Limited only by wire resistance and power supply voltage

Performance (Electrical, Analog outputs):

Sensitivity.....0.05% of span	Enclosure (optional).....NEMA 4X,Polycarbonate, surface mount
Stability.....0.05% of span per 24 hours, Non-cumulative	Net Weight (less opt. Enclosure)..0.6 lbs. (0.27kg)approximately
Non-Linearity.....0.05% of span	
Repeatability.....0.05% of span or better	
Response Time.....1 seconds to 90% of value upon step change	

Ordering Information

Transmitters With NEMA 4X Enclosures

	Products Number	For Use With	Temperature Compensation	Calibration Controls
pH	697P0R0N	BI 5-wire sensors	Automatic, 0-95°C	None
	697P1R0N	Conventional combination electrodes	Manual TC from 0°C to 100°C	None
	697P2R0N	Conventional combination electrodes	Automatic (0-100 °C) or fixed TC	None
	697P4R0N	BI 5-wire sensors (DEMT)	Automatic TC from 0°C-95°C or fixed (Specify °C)	Yes
	697P5R0N	Conventional combination electrodes	Automatic or fixed TC	Yes
ORP	697R0R0N	BI 5-wire sensor (DEMT)	Automatic, 0-95°C	None
	697R2R0N	Conventional combination electrodes	Fixed 25°C TC	None

Dimensions

Inches (mm)

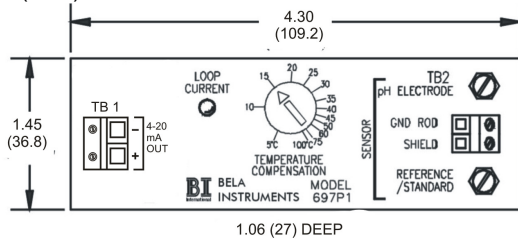
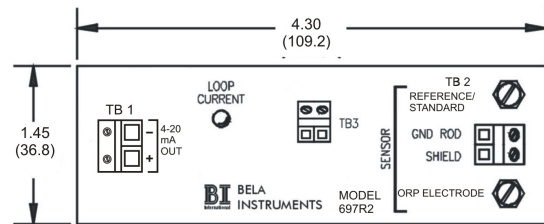
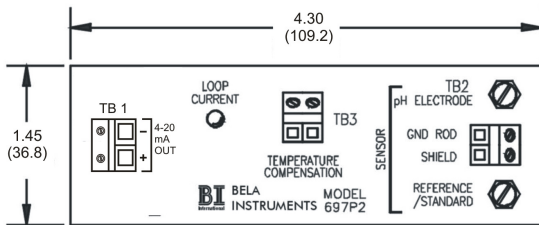


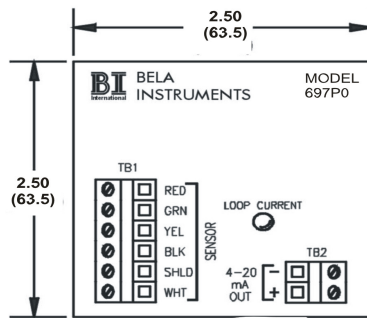
FIGURE 1



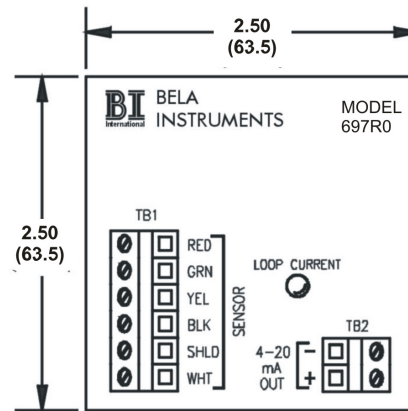
1.06 (27) DEEP
Figure 4



1.06 (27) DEEP
FIGURE 2



0.87(22) DEEP
Figure 3



0.87(22) DEEP
Figure 5