

Power Driver v3 PD121

DESCRIPTION

The BPD122 and BPD121 are, dc powered, 4-wire signal-conditioning modules.

- ✓ If wanting a controlled voltage output then use a BPD122
- If wanting an isolated input, a controlled current output and the output load is fully independent of the power supply then use a BPD122.
- If wanting a controlled current output and one terminal of the load is connected to supply negative then a BPD121 MUST be used.

FEATURES:

- High Power Output for applications where an output drive of 100mA (24V) up to 2Adc is required, as is common with hydraulic solenoid drive applications.
- Signal conversion from all commonly used process control signals.
- **Signal inversion** for applications where the output has to decrease for increasing input (Reverse action).
- **Signal filtering** for fluctuating input signals. The "Ramp option" allows for the time constant to be selected by the user.
- **Gain and bias** (scaling) adjustments to amplify or zero shift a portion of the input signal.
- Dither option. A low level AC signal is superimposed on the output to prevent the output valve or hydraulic solenoid from becoming stuck in applications where the valve is stationary for long periods of time (the amplitude and frequency of the dither signal are specified for the application).





Power supplies for the standard BPD121 include 12Vdc and 24Vdc (other

on request). The BPD121 module features a wide range of input and output signals, direct and reverse action, including bipolar input. Input signals range from 0.1V to 100Vdc and 100mA to 1Adc. All units are factory calibrated to customer specification but can be trimmed to final requirements by the SPAN and OFFSET controls (15-turn trimmers) located on front. The output signal level is indicated by a green LED on the front, giving a clear indication of module function, presence of signal and output loop continuity. All units are fitted with a 0.1 second filter. This filter constant can be increased or decreased if required. RF and power transient protection is also standard as with all BASI modules.

General Specifications

Size: Mounting: Termination: Protection class: Weight: Housing material: Accuracy: Temperature effect: Operating temp. range: Output load effect: Output load effect: Output loop drive: (24Vdc supply) Input/output isolation: Electromagnetic compatibility:	52 W x 70 H x 110 D (mm). (85mm wide with heat sink). DIN-Rail, gear plate. Screw terminals on front. IP40. 0.300 kg. ABS. 0.2% of span. 0.01% per °C. -10+60°C. less than 0.2% up to max. load. 100mA into 0 - 180Ω. 500mA into 0 - 36Ω. 1A into 0 - 18Ω. none. EN-50081-1, EN50082-2, EN-61010-1, AS/NZS 4251.1 (\in
For input / output combinations refer to TYPE NO. DESIGNATION overleaf.	

