

Appendix B: Output Level Shifter Option

- 286-314: Transmitter with Amphenol Connector, Level Shifter Option**
- 286-324: Transmitter, Weather-Tight, Explosion Proof, Level Shifter Option**
- 286-314-500: Remote Transmitter (Aluminum Housing), Level Shifter Option**
- 286-314-525: Remote Transmitter (Polycarbonate Housing), Level Shifter Option**

General

Both the standard and remote transmitter circuit boards have the capability for additional circuitry that gives output voltage levels equivalent to the power supply voltage. For example, if the transmitter is powered with +12 Volts the output will be a 12V square wave. The circuit board used in the level shifter version is identical to the standard circuit board, with the exception of some additional components (R29,R30, and U9) and some that are absent (R23, R24, and D1). The output specifications, some different than those on pg. 3 due to the level shifter, are listed below. All other specifications from pg. 3 not reprinted here remain unchanged.

Output Level Shifter Specifications

Supply Voltage	5 VDC to 30 VDC	
Supply Current	38mA Typical, 32-43 mA Range (+ Load)	
Output (12.0V Supply)		Hi Lo
No Load.....	12.0 V	0.1 V
2.5k Load to Common.....	11.0 V	0.1 V
2.5k Load to +12 Volts.....	12.0 V	1.0 V
Short Circuit Current ⁵	120 mA	
Output Impedance	100Ω	
Rise Time	0.8 uS (90%)	
Fall Time	1.0 uS (90%)	
Maximum Frequency	60 kHz	
Minimum Frequency.....	0 Hz	

⁵ Continuous Short Circuit is not recommended. The output current should not exceed 30 mA per output.