

# SUPPORT

## LEADLESS REMOTE SENSING

Remote sensing is used to improve the degradation of regulation which will occur at the load when the voltage drop in the connecting wires is appreciable. Remote sensing requires a pair of wires to be connected between the output of the power supply and the desired point of load regulation. Remote sensing can be accomplished, without the use of the additional sense leads, by calculating the voltage drop in the output leads and adjusting the output voltage accordingly.

To establish leadless remote sensing, connect terminal 24 of JS1 to terminal 25 of JS1, set the modulation control parameter to voltage control, and set the modulation type to 1. Figure 1 illustrates the hardware connection and the manual describes application of the modulation subsystem. With this configuration, output voltage will increase or decrease with output current as defined by the modulation table. By programming a positive slope into the modulation table, output voltage and voltage drop due to lead loss can be made to cancel. For an installation where there is a 2% drop in voltage at full scale current, the modulation table should be programmed according to Table 1. For row 3 in the modulation table, VMOD is given the value 9999 to signify the last entry.

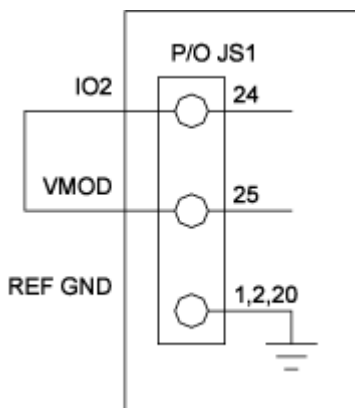


Figure 1. Leadless Remote Sensing

Row	VMOD (Vdc)	Mod
0	0.0	0.00
1	2.0	0.04
2	9999	0.00

Set the program voltage to 14.64V

Table 1. Modulation Table