LD1000 Modbus Communications



Thank you for purchasing a SeaHawk LD1000 single-zone leak detection controller. Use this guide to configure the LD1000's Modbus communications feature.

If, after referencing this guide, you need further assistance with the LD1000 or its Modbus capabilities, please contact RLE Technologies at support@rletech.com.



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Modbus Registers.

The LD1000 uses the following Modbus registers:

Input Registers				
Register	Description	Units	Range	
30001	Status bit field	0x01 (1) = Leak 0x100 (256) = Fault	0-65535	
30002	Leak current on cable	μΑ	0-65535	
30009	Is latching enabled?	0 = Disabled 1 = Enabled	0-65535	
30010	Version		0-65535	

Output Registers				
Register	Description	Units	Range	
40001	Current leak threshold (Set by pot on board)	μΑ	0-65535	
40009	Number of zones	1		
40010	Is alarm silenced?	Write 1 to silence alarm		
40011	Alarm reset	Write 1 to reset alarm (clear latch)		
40012 - 40017	Reserved			

Connect the Modbus Communications

The LD1000 can be used as a stand-alone device but it also has a Modbus connection that allows it to communicate leak and fault status to another device or system. If you wish to use these communications, wire them at this time.

DIP Switch Settings

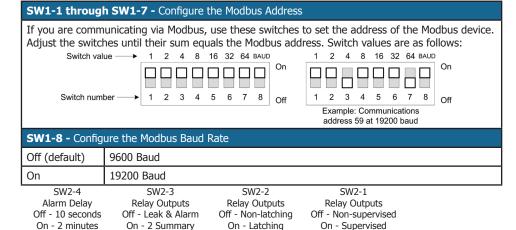
Input

Input

Relay

Output

Use DIP switches to configure the Modbus address and baud rate.



SW1-1 = 1SW1-2 = 2SW1-3 = 4

SW1-4 = 8

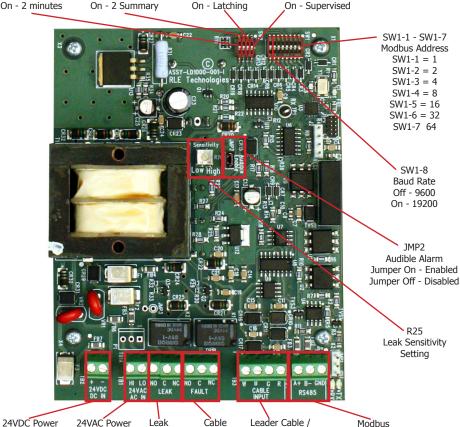
SW1-5 = 16SW1-6 = 32SW1-7 64

SW1-8 **Baud Rate** Off - 9600 On - 19200

JMP2

Setting

Communications



Fault Relay

Output

Sensing Cable

Input