Merlin RG Series

S&S NORTHERN

Modbus Functionality

Modbus

This document provides details on Modbus functionality of the Merlin RS range.

Every effort is made to ensure the accuracy of this document; however, S&S can assume no responsibility for any errors or omissions in this document or their consequences. S&S would greatly appreciate being informed of any errors or omissions that may be found in the content of this document. For information not covered in this document, or if there is a requirement to send comments/corrections, please contact S&S using the contact details given below.

RG = Refrigerant Gas NOTE: Temperature and Humidity functions are disabled.

Parity: None / Data-Word length: 8-bit / Stop bit: 1

Register/Address	Description	Notes	Read/Write
40000-40019	Reserved		
40020	Baud Rate	Type: uINT, Factor:1 9600 (Default), 19200, 38400, 57600 via dipswitch	R
40021	Address	Type: uINT, Factor:1, 0-127 via DIP Switch	R
40022	Name	ASCI character	R
40023	Name	ASCI character	R
40024	N/A	N/A	R
40025	RG	Type: INT, Factor: 1, Unit: ppm	R
40026	Not used		
40027	Not used		
*40028	RG +10V O/P	Type: INT, Factor: 10, Unit: V	R / R/W
*40029	Not used		
*40030	Not used		
40031	RG Offset	Type: INT, Factor: 1, Unit: ppm (-5000 to 5000)	R/W
40032	Not used		
40033	Not used		
40034	Pre-Alarm Level (Low)	Type: INT, Factor: 1, Unit: ppm (0 to 5000ppm) Default 175 ppm	R/W
40035	Alarm Level (High)	Type: INT, Factor: 1, Unit: ppm (0 to 5000ppm) Default 1000 ppm	R/W
40036	Relay Set Point	Type: INT, Factor: 1, Unit: ppm (0 to 5000ppm) Default 1000ppm	R/W
40037	Relay Alarm	Type: INT, Factor: 1, 0: (No alarm) 1: (Alarm, relay changed status)	R
40038	Relay Polarity	Type: INT, Factor: 1, 0: Normal (N/O) 1: Reversed (N/C)	R/W
40039	Not used		
40040	RG Alarm Status	Type: INT, Factor: 1, 1: (No alarm) 2: (Pre-Alarm) 3: (Alarm)	R
40041	RG Maximum	Type: uINT, Factor: 1, Unit: ppm (0 to 5000ppm)	R/W
40042	RG Minimum	Type: uINT, Factor: 1, Unit: ppm (0 to 5000ppm)	R/W

40043	RG Voltage Max	Type: uINT, Factor: 10, Unit: V (0 to 10V)	R/W
40044	RG Voltage Min	Type: uINT, Factor: 10, Unit: V (0 to 10V)	R/W
40045	Not used		
40046	Not used		
40047	Not used		
40048	Not used		
40049	Not used		
40050	Not used		
40051	Not used		
40052	Not used		
40053	RG Voltage Feedback	Type: uINT, Factor: 10, Unit: V	R
40054	Not used		
40055	Not used		
40056	RG Voltage Alarm	Type: INT, Factor: 1, 0: (No alarm) 1: (Alarm) +/-10% out	R
40057	Not used		
40058	Not used		
40059	Reserved		
*40060	RG +10V O/P (40028)	Type: INT, Factor: 1, 0: (O/P based on Writeable Value - 40028) 1: (O/P based on RG Sensor - 40028)	R/W
*40061	Not used		
*40062	Not used		
*40063	Audible Alarm	Type: INT, Factor: 1, 1: Disabled 2: Enabled	R/W
40064	Error Code	Type: INT, Factor: 1,	R
40065	Warning Code	Type: INT, Factor: 1,	R

S&S Northern Limited
www.snsnorthern.com
S&S Northern Head Office
Tel: +44 (0) 1257 470983
info@snsnorthern.com