

R8-MOD POINTMAP

MODBUS SERIAL RECEIVER

RS485 RTU SERIAL, 9600 BAUD 8N1

CONFIGURATION	Read/Write	Name	Units	Type	Notes	DLX	LTE	SML
Address	[3,4]x001	MAC A		HEX16	Radio Address	✓	✓	✓
	[3,4]x002	MAC B		HEX16		✓	✓	✓
	[3,4]x003	MAC C		HEX16		✓	✓	✓
	[3,4]x004	MAC D		HEX16		✓	✓	✓
Rates	[3,4]x005	Radio Ping Rate	Seconds	UINT16	Broadcast interval For 12v power	✓	✓	✓
	[3,4]x006	Warm Up Time	Seconds	UINT16		✓	✓	✓
	[3,4]x007	Sample Rate	Seconds	UINT16		✓	✓	✓
	[3,4]x008	GPS Ping Rate	Seconds	UINT16		✓	✓	✓
Thermistor	[3,4]x009	Thermistor Type		UNT16	0xFFFF = Disable Note 1	✓	✓	✓
	[3,4]x010	T1 Low Set Point	deg C	INT16		✓	✓	✓
Temp Set Points	[3,4]x011	T1 High Set Point	deg C	INT16	Note 2 0x7FFF = Disable	✓	✓	✓
	[3,4]x012	T2 Low Set Point	deg C	INT16		✓	✓	✓
	[3,4]x013	T2 High Set Point	deg C	INT16		✓	✓	✓
Pulse Counts	[3,4]x014	Pulse Count A		UNT32	Default = Disabled Factory Option	✓	✓	✓
	[3,4]x016	Pulse Count B		UNT32		✓	✓	✓
Modbus ID #	[3,4]9999	Modbus ID#		UINT16	Default = 10	✓	✓	✓

(x = transmitter #)

DIAGNOSTIC	Read Only	Name	Units	Type	Notes	DLX	LTE	SML
Raw Voltages	3x020	Thermistor 1	mV	UINT16	Analog 0	✓	✓	✓
	3x021	Thermistor 2	mV	UINT16	Analog 1	✓	✓	✓
	3x022	Input 1	mV	UINT16	Analog 2	✓	✓	✓
	3x023	Input 2	mV	UINT16	Analog 3	✓	✓	✓
	3x024	Input 3	mV	UINT16	Analog 4	✓	✓	✓
	3x025	Input 4	mV	UINT16	Analog 5	✓	✓	✓
	3x026	Vacuum	mV	UINT16	Analog 6	✓	✓	✓
	3x027	Battery	mV	UINT16	Analog 7	✓	✓	✓

(x = transmitter #)

DATA	Read Only	Name	Units	Type	Notes	DLX	LTE	SML
Scaled Data	3x030, 3x031	Battery	Volts	FLOAT32		✓	✓	✓
	3x032, 3x033	Last Packet Timer	Seconds	UINT32		✓	✓	✓
	3x034, 3x035	Pulse Count A		UINT32		✓	✓	✓
	3x036, 3x037	Pulse Count B		UINT32		✓	✓	✓
	3x038, 3x039	Thermistor 1	deg F	FLOAT32	Note 3	✓	✓	✓
	3x040, 3x041	Thermistor 2	deg F	FLOAT32		✓	✓	✓
	3x042, 3x043	Analog 1	Volts or mA	FLOAT32	✓	✓	✓	
	3x044, 3x045	Analog 2	Volts or mA	FLOAT32	✓	✓	✓	
	3x046, 3x047	Analog 3	Volts or mA	FLOAT32	✓	✓	✓	
	3x048, 3x049	Analog 4	Volts or mA	FLOAT32	✓	✓	✓	
	3x050, 3x051	O/A RH%	%RH	FLOAT32	✓	✓	✓	
	3x052, 3x053	O/A TEMP	deg F	FLOAT32	✓	✓	✓	

(x = transmitter #)

GPS OPTION	Read Only	Name	Units	Type	Notes	DLX	LTE	SML
GPS Data	3x060, 3x061	GPS Latitude		FLOAT32	Note 4	✓	✓	✓
	3x062, 3x063	GPS Longitude		FLOAT32		✓	✓	✓
	3x064	North/South		UINT16 (1 CHAR)		✓	✓	✓
	3x065	East/West		UINT16 (1 CHAR)		✓	✓	✓

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OTHER	Read Only	Name
Reserved	3x100-3x999	Expansion/Legacy

NOTE 1: Thermistor Type. 2 = 10k TYPE 2, 3 = 10k TYPE 3. Consult factory for other options.

NOTE 2: If Thermistor 1 or Thermistor 2 readings are in programmed range, ping rate is automatically overridden to 10 seconds in auto mode.

NOTE 3: Not Reported Yet = -3568 deg F, Open Circuit / No Sensor = -1768 deg F

NOTE 4: N = 78 (0x4E), S = 83 (0x53), E = 69 (0x45), W = 87 (0x57), No Fix = 45 (0x2D)

Supported Modbus Function Codes

FC03 = Read 16 bit Output Holding Registers (4xxxx table)

FC04 = Read 16 bit Input Registers (3xxxx table)

FC06 = Write Single 16 bit Holding Register (4xxxx table)

Multiple Transmitters

Up to 10 transmitters are supported per receiver device.

30001 - 30999 = Transmitter 0 Registers

Block 0

31001 - 31999 = Transmitter 1 Registers

Block 1

32001 - 32999 = Transmitter 2 Registers

Block 2

...

39001 - 39998 = Transmitter 9 Registers

Block 9