



*Communication Protocol*

Date : 22 Jan , 2021

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*Address Map of EAMF-9920*

Version : 3.10

**Address Map Of EAMF-9920 For Modbus Communication**

S.No	Parameter		Bytes	Address	Divide By	Data Type
1	DG Voltage	R	2 Bytes	16385	100	Unsigned Decimal
		Y	2 Bytes	16386	100	Unsigned Decimal
		B	2 Bytes	16387	100	Unsigned Decimal
2	EB Voltage	R	2 Bytes	16388	100	Unsigned Decimal
		Y	2 Bytes	16389	100	Unsigned Decimal
		B	2 Bytes	16390	100	Unsigned Decimal
3	DG Line 2 Line Voltage	RY	2 Bytes	16391	100	Unsigned Decimal
		YB	2 Bytes	16392	100	Unsigned Decimal
		BR	2 Bytes	16393	100	Unsigned Decimal
4	EB Line 2 Line Voltage	RY	2 Bytes	16394	100	Unsigned Decimal
		YB	2 Bytes	16395	100	Unsigned Decimal
		BR	2 Bytes	16396	100	Unsigned Decimal
5	DG Frequency	Hz	2 Bytes	16397	100	Unsigned Decimal
6	EB Frequency	Hz	2 Bytes	16398	100	Unsigned Decimal
7	DG Power Factor	R	2 Bytes	16399	100	Unsigned Decimal
		Y	2 Bytes	16400	100	Unsigned Decimal
		B	2 Bytes	16401	100	Unsigned Decimal
8	EB Power Factor	R	2 Bytes	16402	100	Unsigned Decimal
		Y	2 Bytes	16403	100	Unsigned Decimal
		B	2 Bytes	16404	100	Unsigned Decimal
9	RPM		2 Bytes	16405	NA	Unsigned Decimal
10	DC Voltage		2 Bytes	16406	100	Unsigned Decimal
11	Alt Voltage		2 Bytes	16407	100	Unsigned Decimal
12	LOP (Bar)		2 Bytes	16408	10	Unsigned Decimal
13	HWT (°C)		2 Bytes	16409	NA	Unsigned Decimal
14	LFL (%)		2 Bytes	16410	NA	Unsigned Decimal
15	Current	R	4 Bytes	16411	1000	Long Integer (LSRF)
		Y	4 Bytes	16413	1000	Long Integer (LSRF)
		B	4 Bytes	16415	1000	Long Integer (LSRF)
16	DG KW	R	4 Bytes	16417	100000	Long Integer (LSRF)
		Y	4 Bytes	16419	100000	Long Integer (LSRF)
		B	4 Bytes	16421	100000	Long Integer (LSRF)
17	DG KVA	R	4 Bytes	16423	100000	Long Integer (LSRF)
		Y	4 Bytes	16425	100000	Long Integer (LSRF)
		B	4 Bytes	16427	100000	Long Integer (LSRF)



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*Address Map of AMF9920*

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**Address Map Of AMF9920 For Modbus Communication**

S.No	Parameter	Bytes	Address	Divide By	Data Type	
18	EB KW	R	4 Bytes	16429	100000	Long Integer (LSRF)
		Y	4 Bytes	16431	100000	Long Integer (LSRF)
		B	4 Bytes	16433	100000	Long Integer (LSRF)
19	EB KVA	R	4 Bytes	16435	100000	Long Integer (LSRF)
		Y	4 Bytes	16437	100000	Long Integer (LSRF)
		B	4 Bytes	16439	100000	Long Integer (LSRF)
20	DG Energy	kWh	4 Bytes	16441	100	Long Integer (LSRF)
21	EB Energy	kWh	4 Bytes	16443	100	Long Integer (LSRF)
22	Run Hour (Min)		4 Bytes	16445	NA	Long Integer (LSRF)
23	Service Hour (Min)		4 Bytes	16447	NA	Long Integer (LSRF)
24	RTC (Date)	DATE	2 Bytes	16449	NA	Unsigned Decimal
25	RTC (Month)		2 Bytes	16450	NA	Unsigned Decimal
26	RTC (Year)		2 Bytes	16451	NA	Unsigned Decimal
27	RTC (Hour)	Time	2 Bytes	16452	NA	Unsigned Decimal
28	RTC (Minute)		2 Bytes	16453	NA	Unsigned Decimal
29	RTC (Second)		2 Bytes	16454	NA	Unsigned Decimal
30	Reserved			16455-16461		
37	COMBINED KW	kW	4 Bytes	16462	100000	Long Integer (LSRF)
38	COMBINED KVA	kVa	4 Bytes	16464	100000	Long Integer (LSRF)
39	COMBINED PF	Pf	4 Bytes	16466	100000	Long Integer (LSRF)
40	Status		2 Bytes	16468	<a href="#">Status Read in Bits</a>	

**Status Read in Bits (Function code 3)**

Address	Description
16468,0	Reserved
16468,1	Reserved
16468,2	Auto Mode
16468,3	Manual Mode
16468,4	Remote Mode
16468,5	DG Running
16468,6	DG Stop
16468,7	DG Contactor Status (0-Open,1-Closed)
16468,8	Mains Contactor Status(0-Open,1-Closed)

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Created By : Vinod Sharma



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### Relay Start/ Stop through Modbus

Version : 3.10

S.No	Parameter Name	Bits	Type	Address	Multiplying factor	Type of Register
1	DG Start Command - This should work only when mode in Remote mode	1	Bit	1	NA	Coil Status
2	DG Stop Command - This should work only when mode in Remote mode	1	Bit	2	NA	Coil Status
3	Auto Mode Command	1	Bit	3	NA	Coil Status
4	Manual Mode Command	1	Bit	4	NA	Coil Status
5	Remote Mode Command	1	Bit	5	NA	Coil Status
6	DG Start Command - This should work only when mode in Manual mode	1	Bit	6	NA	Coil Status
7	DG Stop Command - This should work only when mode in Manual mode	1	Bit	7	NA	Coil Status
8	Generator Breaker Command (0-Open,1-Closed) - This should work only when mode in Remote Manual mode	1	Bit	8	NA	Coil Status
9	Mains Breaker Close Command (0-Open,1-Closed) - This should work only when mode in Remote Manual mode	1	Bit	9	NA	Coil Status
10	Fault Reset	1	Bit	10	NA	Coil Status

**Note :-** Remote Start/Stop (for Add. 1 & 2 )feature will work only in by remote Mode (Parameter Setting - 909 ) .