Genesis DUO™
Dual-Point Control & Monitoring Solution

Version History

Version	Comments	Document Number
V1.0	Genesis Duo Modbus Memory Map	Form TEP0267-0524

Genesis DUO™ Modbus Memory Map

Table 1: Circuit Measurement and Status (Read Only)

Function Code(s)	Address	Description	Values
04	100	Alarm Acknowledge Circuit 1	See **Table 2**
04	101	Alarm Acknowledge Circuit 2	
04	102	Temp RTD1 Circuit 1	Temp = value x 10
04	103	Temp RTD1 Circuit 2	Temp = value x 10
04	104	Temp RTD2 Circuit 1	Temp = value x 10
04	105	Temp RTD2 Circuit 2	Temp = value x 10
04	106	Control Temp Circuit 1	Temp = value x 10
04	107	Control Temp Circuit 2	Temp = value x 10
04	108	Control RTD Circuit 1	
04	109	Control RTD Circuit 2	
04	110	Ground/Earth Current Circuit 1	
04	111	Ground/Earth Current Circuit 2	
04	112	Percent ON Circuit 1	
04	113	Percent ON Circuit 2	
04	114	Heater Current CT 1	
04	115	Heater Current CT 2	
04	116-119	Reserved	
04	120	Alarm Status Circuit 1	
04	121	Temp RTD1 Circuit 1	Temp = Value x 10
04	122	Temp RTD2 Circuit 1	Temp = Value x 10
04	123	Control Temp Circuit 1	Temp = Value x 10
04	124	Control RTD Circuit 1	RTD 1 or RTD 2
04	125	Ground/Earth Current Circuit 1	
04	126	Percent ON Circuit 1	
04	127	Heater Current CT 1	
04	128	Heater Current CT 2	
04	129	Reserved	

Table 1: Circuit Measurement and Status (Read Only) Continued

Function Code(s)	Address	Description	Values
04	130	Alarm status Circuit 2	
04	131	Temp RTD1 Circuit 2	Temp = Value x 10
04	132	Temp RTD2 Circuit 2	Temp = Value x 10
04	133	Control Temp Circuit 2	Temp = Value x 10
04	134	Control RTD Circuit 2	RTD 1 or RTD 2
04	135	Ground/Earth Current Circuit 2	
04	136	Percent ON Circuit 2	
04	137	Heater Current CT 2	

Table 2: Alarm Status/Acknowledge

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
High Current Trip	Not used	Circuit OFF	Ground/Earth Fault Trip	Not used	High Temp Trip	Not used	RTD1 Fault	High Current Alarm	Low Current Alarm	Circuit Fault	Alarm	Not used	High Temp Alarm	Not used	Low Temp Alarm

Table 3: Circuit Measurements/Status

Function Code(s)	Address	Description	Values
03	0	Alarm Acknowledge Circuit 1	See **Table 2**
03	1	Alarm Acknowledge Circuit 2	
03	2	Maintain Temp Circuit 1	
03	3	Maintain Temp Circuit 2	
03	4	Control Band Circuit 1	
03	5	Control Band Circuit 2	
03	6	High Temp Trip RTD 1 Circuit 1	
03	7	High Temp Trip RTD 1 Circuit 2	
03	8	High Temp Trip RTD 2 Circuit 1	
03	9	High Temp Trip RTD 2 Circuit 2	
03	10	High Temp Alarm RTD 1 Circuit 1	
03	11	High Temp Alarm RTD 1 Circuit 2	
03	12	High Temp Alarm RTD 2 Circuit 1	
03	13	High Temp Alarm RTD 2 Circuit 2	
03	14	Low Temp Alarm RTD 1 Circuit 1	
03	15	Low Temp Alarm RTD 1 Circuit 2	
03	16	Low Temp Alarm RTD 2 Circuit 1	
03	17	Low Temp Alarm RTD 2 Circuit 2	
03	18	High Ground/Earth Current Trip Circuit 1	
03	19	High Ground/Earth Current Trip Circuit 2	
03	20	High Ground/Earth Current Alarm Circuit 1	
03	21	High Ground/Earth Current Alarm Circuit 2	
03	22	High Current Trip Circuit 1	
03	23	High Current Trip Circuit 2	
03	24	High Current Alarm Circuit 1	
03	25	High Current Alarm Circuit 2	
03	26	Low Current Alarm Circuit 1	
03	27	Low Current Alarm Circuit 2	
03	28	Circuit 1 Status	See **Table 4**
03	29	Circuit 2 Status	
03	30	Control Method Circuit 1	0 = ON/OFF MEC 1 = ON/OFF SSR 2 = Proportional 3 = Ambient 4 = Ambient APCM
03	31	Control Method Circuit 2	
03	32	Number of RTD Circuit 1	
03	33	Number of RTD Circuit 2	
03	34	Power Clamp Circuit 1	
03	35	Power Clamp Circuit 2	

Table 3: Circuit Measurements/Status (Continued)

Function Code(s)	Address Hex	Decimal	Description	Values
03	0x0024	36	RTD Fault Clamp Circuit 1	
03	0x0025	37	RTD Fault Clamp Circuit 2	
		38-47	Reserved	

Table 4: Circuit Status Bits

Bits	Description
3	Forced OFF
2	Forced ON
1	Tripped
0	Enabled

Table 5: Read Only Controller Data

Function Code(s)	Address	Description	Values
03	2025	Start Up Delay	
	All unspecified ranges are Reserved		
03	2046	Units	0 = F; 1 = C