Marway mPower DC 300 Series ModBus Register List

ModBus address (dec)	ModBus address (hex)	Read coils (0x01)	Read holding registers (0x03)	Write single coil (0x05)	Write single register (0x06)	Write multiple registers (0x10)	Description	Access	Data type	Data length in bytes	Number of registers	Data	Example or description
0	0x0000		x				Device class	R	uint(16)	2	1		28, 30, 38 = 300 Series
1	0x0001		x				Device type	R	char	40	20	ASCII	PS 9080-60 2U
21	0x0015		x				Manufacturer	R	char	40	20	ASCII	
41	0x0029		x				Manufacturer address	R	char	40	20	ASCII	
61	0x003D		x				Manufacturer ZIP code	R	char	40	20	ASCII	
81	0x0051		x				Manufacterer phone number	R	char	40	20	ASCII	
101	0x0065		x				Manufacturer website	R	char	40	20	ASCII	
121	0x0079		x				Nominal voltage	R	float	4	2	Floating point number IEEE754	80
123	0x007B		x				Nominal current	R	float	4	2	Floating point number IEEE754	60
125	0x007D		x				Nominal power	R	float	4	2	Floating point number IEEE754	1500
131	0x0083		x				Article no.	R	char	40	20	ASCII	06230209
151	0x0097		x				Serial no.	R	char	40	20	ASCII	1234567890
171	0x00AB		x			x	User text	RW	char	40	20	ASCII	
191	0x00BF		x				Firmware version (KE)	R	char	40	20	ASCII	V3.02 16.08.2016
211	0x00D3		x				Firmware version (HMI)	R	char	40	20	ASCII	V2.08 22.09.2016
231	0x00E7		x				Firmware version (DR)	R	char	40	20	ASCII	V1.0.4.1 30.06.2016
402	0x0192	x		x			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on
405	0x0195	x		x			DC output	RW	uint(16)	2	1	Coils : Output	0x0000 = off; 0xFF00 = on
407	0x0197	x		x			Condition of DC output after PF alarm	RW	uint(16)	2	1	Coils : Condition	0x0000 = off; 0xFF00 = auto
408	0x0198		x		x		Condition of DC output after power ON	RW	uint(16)	2	1	Reg : Condition	0xFFFF = off; 0xFFFE = Restore
410	0x019A	x		x			Restart of the device (warm start)	RW	uint(16)	2	1	Coils : Restart	0xFF00 = execute
411	0x019B	x		x			Acknowledge alarms	RW	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge
416	0x01A0	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V
417	0x01A1	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted
418	0x01A2	x		x			Analog interface: REM-SB action	RW	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC on/off
422	0x01A6	x		x			Speed of internal voltage controller	RW	uint(16)	2	1	Coils : Controller speed	0x0000 = Slow; 0xFF00 = Fast
425	0x01A9	x		x			Condition of DC output after leaving remote	RW	uint(16)	2	1	Coils : Condition	0x0000 = off; 0xFF00 = auto
440	0x01B8		x		x		Analog interface: Pin 14 configuration	RW	uint(16)	2	1	Reg: Alarms 1	0x0000 = OVP (default); 0x0001 = OCP; 0x0002 = OPP; 0x0003 = OVP + OCP; 0x0004 = OVP + OPP; 0x0005 = OCP + OPP; 0x0006 = OVP + OCP + OPP
441	0x01B9		x		x		Analog interface: Pin 6 configuration	RW	uint(16)	2	1	Reg: Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF
442	0x01BA		x		x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Reg: Status DC	0x0000 = CV; 0x0001 = DC on/off
500	0x01F4		x		x		Set voltage value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)
501	0x01F5		x		x		Set current value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)
502	0x01F6		x		x		Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)
505	0x01F9		x				Device state	RW	uint(32)	4	2	Bit 0- 4: Control location	0x00 = free; 0x01 = local; 0x02 = remote; 0x03 = USB; 0x04 = analog; 0x06 = Ethernet
												Bit 7 : DC output state	0 = off; 1 = on
												Bit 9-10 : Regulation mode	00 = CV; 01 = CR; 10 = CC; 11 = CP
												Bit 11 : Remote	0 = off; 1 = on
												Bit 14 : Remote sensing	0 = off; 1 = on
												Bit 15 : Alarms	0 = none; 1 = active
												Bit 16 : OVP	0 = none; 1 = active
												Bit 17 : OCP	0 = none; 1 = active
												Bit 18 : OPP	0 = none; 1 = active
												Bit 19 : OT	0 = none; 1 = active
												Bit 21 : Power fail	0 = none; 1 = active
												Bit 22 : Power fail	0 = none; 1 = active
												Bit 23 : Power fail	0 = none; 1 = active
												Bit 24 : UVD	0 = none; 1 = active
												Bit 25 : OVD	0 = none; 1 = active
												Bit 26 : UCD	0 = none; 1 = active
												Bit 27 : OCD	0 = none; 1 = active
												Bit 28 : OPD	0 = none; 1 = active
												Bit 30 : REM-SB	0 = DC enabled; 1 = REM-SB disables DC output
507	0x01FB		x				Actual voltage	RW	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)
508	0x01FC		x				Actual current	RW	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)
509	0x01FD		x				Actual power	RW	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)
520	0x0208		x				Count of OV alarms since power up	RW	uint(16)	2	1	0x0000 - 0xFFFF	Count
521	0x0209		x				Count of OC alarms since power up	RW	uint(16)	2	1	0x0000 - 0xFFFF	Count
522	0x020A		x				Count of OP alarms since power up	RW	uint(16)	2	1	0x0000 - 0xFFFF	Count
523	0x020B		x				Count of OT alarms since power up	RW	uint(16)	2	1	0x0000 - 0xFFFF	Count
524	0x020C		x				Count of PF alarms since power up	RW	uint(16)	2	1	0x0000 - 0xFFFF	Count
550	0x0226		x		x		Overvoltage protection threshold (OVP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)
553	0x0229		x		x		Overcurrent protection threshold (OCP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)
556	0x022C		x		x		Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)
577	0x0241		x		x		Condition of DC output after OT alarm	RW	uint(16)	2	1	Reg: Condition	0x0000 = off; 0x0001 = Restore
9000	0x2328		x		x		Upper limit of voltage set value (U-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)
9001	0x2329		x		x		Lower limit of voltage set value (U-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)
9002	0x232A		x		x		Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)
9003	0x232B		x		x		Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)
9004	0x232C		x		x		Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)
10007	0x2717	x		x			Ethernet: TCP keep-alive	RW	uint(16)	2	1	Coils: Keep-alive on/off	0x0000 = off; 0xFF00 = on
10008	0x2718	x		x			Ethernet: DHCP	RW	uint(16)	2	1	Coils: DHCP on/off	0x0000 = off; 0xFF00 = on
10010	0x271A	x		x			Protocol: Modbus	RW	uint(16)	2	1	Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on
10011	0x271B	x		x			Protocol: SCPI	RW	uint(16)	2	1	Coils: SCPI on/off	0x0000 = off; 0xFF00 = on
10017	0x2721		x				Ethernet: DHCP status	RW	uint(16)	2	1	Bit0: DHCP running	0 = manual; 1 = DHCP
10502	0x2906		x			x	Ethernet: IP address	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	192.168.0.2 (default)
10504	0x2908		x			x	Ethernet: Subnet mask	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	255.255.255.0 (Standard)
10506	0x290A		x			x	Ethernet: Gateway	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	192.168.0.1 (default)
10508	0x290C		x			x	Ethernet: Host name	RW	char	54	27	ASCII	"Client" (default)
10535	0x2927		x			x	Ethernet: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)
10562	0x2942		x			x	Ethernet: DNS	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	0.0.0.0 (default)
10566	0x2946		x				USB: Connection timeout (in milliseconds)	RW	uint(16)	2	1	5..65535	Default: 5 ms
10567	0x2947		x				Ethernet: MAC	RW	uint(8)	6	3	Bytes 0 - 5: 0..255	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34
10572	0x294C		x				Ethernet: Port	RW	uint(16)	2	1	0..65536 (except 80)	5025 (default)
10573	0x294D		x				Ethernet: TCP Socket timeout (in seconds)	RW	uint(16)	2	1	5..65535, 0 = inactive	Default: 5 s
10900	0x2A94		x				GPIB address (option 3W)	RW	uint(16)	2	1	1…30	Default: 1