MODBUS TABLES

By: KA
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D22 I/O
Inputs : 6x AI. 6x DI. 6x DI F. 6x DI C
Outputs : 4x AO, 2x SO, 2x RO
Internal : *depends on the ValvApp*

Cla-Val Table (old)

Standar Modbus Interface

Analog Inputs

Address	Type of	I/O	Information
40000	Read-Write	AI1	Status/control word
40001	Read-Write		Input value, high-order word
40002	Read-Write		Input value, low-order word
40003	Read-Write	AI2	Status/control word
40004	Read-Write		Input value, high-order word
40005	Read-Write		Input value, low-order word
40006	Read-Write	AI3	
-	Read-Write	-	
-	Read-Write	-	
40015	Read-Write	AI6	Status/control word
40016	Read-Write		Input value, high-order word
40017	Read-Write		Input value, low-order word
40018 - 40099			Read as zeros

Digital Inputs

40100	Read-Write	DI1 (digital state 1/0)	Status/control word
40101	Read-Write		Input value, high-order word
40102	Read-Write		Input value, low-order word
40103	Read-Write	DI1_C (counter value)	Status/control word
40104	Read-Write		Input value, high-order word
40105	Read-Write		Input value, low-order word
40106	Read-Write	DI1_F (flow value ie counter value over time)	Status/control word
40107	Read-Write		Input value, high-order word
40108	Read-Write		Input value, low-order word
40109	Read-Write	DI2	
-	Read-Write	-	
-	Read-Write	-	
40145 - 40147	Read-Write	DI6	
40148 - 40150	Read-Write	DI6_C	
40151 - 40153	Read-Write	DI6_F	
40154 - 40199			Read as zeros

Analog Outputs

40200	Read-Write	AO1	Status/control word
40201	Read-Write		Output value, high-order word
40202	Read-Write		Output value, low-order word
40203	Read-Write	AO2	Status/control word
40204	Read-Write		Output value, high-order word
40205	Read-Write		Output value, low-order word
40206	Read-Write	AO3	
-	Read-Write	-	
-	Read-Write	-	
40209	Read-Write	AO4	Status/control word
40210	Read-Write		Output value, high-order word
40211	Read-Write		Output value, low-order word
40212 - 40299			Read as zeros

Digital Outputs

40300	Read-Write	DO1	Status/control word
40301	Read-Write		Output value, high-order word
40302	Read-Write		Output value, low-order word
40303	Read-Write	DO2	Status/control word
40304	Read-Write		Output value, high-order word
40305	Read-Write		Output value, low-order word
40306	Read-Write	DO3	
-	Read-Write	-	
-	Read-Write	-	
40309	Read-Write	DO4	Status/control word
40310	Read-Write		Output value, high-order word
40311	Read-Write		Output value, low-order word
40312 - 40399			Read as zeros

Modbus Toplayıcı

Analog Inputs

42000	Read-Write	AI1	Status/control word
42001	Read-Write		Input value, high-order word
42002	Read-Write		Input value, low-order word
42003	Read-Write	AI2	Status/control word
42004	Read-Write		Input value, high-order word
42005	Read-Write		Input value, low-order word
42006	Read-Write	AI3	
-	Read-Write	-	
-	Read-Write	-	
42015 - 42017	Read-Write	AI6	
42018 - 42099			Read as zeros

Digital Inputs

42100	Read-Write	DI1 (digital state 1/0)	Status/control word
42101	Read-Write		Input value, 0/1
42102	Read-Write	DI2	Status/control word
42103	Read-Write		Input value, 0/1
42104	Read-Write	DI3	
-	Read-Write	-	
-	Read-Write	-	
42110 - 42111	Read-Write	DI6	
42112 - 42119	Read-Write		Read as zeros
42120	Read-Write	DI1_C (counter value)	Status/control word
42121	Read-Write		Input value, high-order word
42122	Read-Write		Input value, low-order word
42123	Read-Write	DI2_C	Status/control word
42124	Read-Write		Input value, high-order word
42125	Read-Write		Input value, low-order word
42126	Read-Write	DI3_C	
-	Read-Write	-	
-	Read-Write	-	
42135 - 42137	Read-Write	DI6_C	
42138 - 42139			Read as zeros
42140	Read-Write	DI1_F (frequency value)	Status/control word
42141	Read-Write		Input value, high-order word
42142	Read-Write		Input value, low-order word
42143	Read-Write	DI2_F	Status/control word
42144	Read-Write		Input value, high-order word
42145	Read-Write		Input value, low-order word
42146	Read-Write	DI3_F	
-	Read-Write	-	
-	Read-Write	-	
42155 - 42157	Read-Write	DI6_F	
42158 - 42199			Read as zeros

Analog Outputs

42200	Read-Write	AO1	Status/control word
42201	Read-Write		Output value, high-order word
42202	Read-Write		Output value, low-order word
42203	Read-Write	AO2	Status/control word
42204	Read-Write		Output value, high-order word
42205	Read-Write		Output value, low-order word
42206	Read-Write	AO3	Status/control word
42207	Read-Write		Output value, high-order word
42208	Read-Write		Output value, low-order word
42209	Read-Write	AO4	Status/control word
42210	Read-Write		Output value, high-order word
42211	Read-Write		Output value, low-order word
42212 - 42299			Read as zeros

Digital Outputs

42300	Read-Write	SO1	Status/control word
42301	Read-Write		Output value
42302	Read-Write	SO2	Status/control word
42303	Read-Write		Output value
42304	Read-Write	RO3	Status/control word
42305	Read-Write		Output value
42306	Read-Write	RO4	Status/control word
42307	Read-Write		Output value
42308 - 42399			Read as zeros

Integer Modbus Toplayıcı

Analog Inputs

44000	Read-Write	AI1	Status/control word
44001	Read-Write		Input value
44002			Read as zeros
44003	Read-Write	AI2	Status/control word
44004	Read-Write		Input value
44005			Read as zeros
44006	Read-Write	AI3	
-	Read-Write	-	
-	Read-Write	-	
44015 - 44017	Read-Write	AI6	
44018 - 44099			Read as zeros

Digital Inputs

44100	Read-Write	DI1 (digital state 1/0)	Status/control word
44101	Read-Write		Input value, 0/1
44102	Read-Write	DI2	Status/control word
44103	Read-Write		Input value, 0/1
44104	Read-Write	DI3	
-	Read-Write	-	
-	Read-Write	-	
44110 - 44111	Read-Write	DI6	
44112 - 44119			Read as zeros
44120	Read-Write	DI1_C (counter value)	Status/control word
44121	Read-Write		Input value
44122			Read as zeros
44123	Read-Write	DI2_C	Status/control word
44124	Read-Write		Input value
44125			Read as zeros
44126	Read-Write	DI3_C	
-	Read-Write	-	
-	Read-Write	-	
44135 - 44137	Read-Write	DI6_C	
44138 - 44139			Read as zeros
44140	Read-Write	DI1_F (frequency value)	Status/control word
44141	Read-Write		Input value, high-order word
44142			Read as zeros
44143	Read-Write	DI2_F	Status/control word
44144	Read-Write		Input value
44145			Read as zeros
44146	Read-Write	DI3_F	
-	Read-Write	-	
-	Read-Write	-	
44155 - 44157	Read-Write	DI6_F	
44158 - 44199			Read as zeros

Analog Outputs

44200	Read-Write	AO1	Status/control word
44201	Read-Write		Output value
44202			Read as zeros
44203	Read-Write	AO2	Status/control word
44204	Read-Write		Output value
44205			Read as zeros
44206	Read-Write	AO3	Status/control word
44207	Read-Write		Output value
44208			Read as zeros
44209	Read-Write	AO4	Status/control word
44210	Read-Write		Output value
44211			Read as zeros
44212 - 44299			Read as zeros

Digital Outputs

44300	Read-Write	SO1	Status/control word
44301	Read-Write		Output value
44302	Read-Write	SO2	Status/control word
44303	Read-Write		Output value
44304	Read-Write	RO3	Status/control word
44305	Read-Write		Output value
44306	Read-Write	RO4	Status/control word
44307	Read-Write		Output value
44308 - 44399			Read as zeros

Standard Table (new)

Discrete Output Coils

01: Read Coils

Address	Type of	Data Type	I/O	Information	Bit maps (- : not used)
00000	Read-Only	Bit	SO1	Physical Output State (On / Off)	SO1
00001	Read-Only	Bit	SO2		SO2
00002	Read-Only	Bit	RO1		RO1
00003	Read-Only	Bit	RO2		RO2
00004 - 09999	Read-Only			Not used	-

Discrete Input Contacts

02: Read Discrete Inputs

10000	Read-Only	Bit	DI1	Physical Input State (On / Off)	DI1
10001	Read-Only	Bit	DI2		DI2
10002	Read-Only	Bit	DI3		DI3
10003	Read-Only	Bit	DI4		DI4
10004	Read-Only	Bit	DI5		DI5
10005	Read-Only	Bit	DI6		DI6
10006 - 19999	Read-Only			Not used	-

Analog Input Registers

04: Read Input Register

Address	Type of	Data Type	I/O	Information	Bit maps (- : not used)
30000	Read-Only	IEEE Float	AI1	Physical Input value	high-order word
30001					low-order word
30002	Read-Only	IEEE Float	AI2		high-order word
30003					low-order word
30004	Read-Only	IEEE Float	AI3		high-order word
30005					low-order word
30006	Read-Only	IEEE Float	AI4		high-order word
30007					low-order word
30008	Read-Only	IEEE Float	AI5		high-order word
30009					low-order word
30010	Read-Only	IEEE Float	AI6		high-order word
30011					low-order word
30012	Read-Only	IEEE Float	DI1_C		high-order word
30013					low-order word
30014	Read-Only	IEEE Float	DI2_C		high-order word
30015					low-order word
30016	Read-Only	IEEE Float	DI3_C		high-order word
30017					low-order word
30018	Read-Only	IEEE Float	DI4_C		high-order word
30019					low-order word
30020	Read-Only	IEEE Float	DI5_C		high-order word
30021					low-order word
30022	Read-Only	IEEE Float	DI6_C		high-order word
30023					low-order word
30024	Read-Only	IEEE Float	DI1_F		high-order word
30025					low-order word
30026	Read-Only	IEEE Float	DI2_F		high-order word
30027					low-order word
30028	Read-Only	IEEE Float	DI3_F		high-order word
30029					low-order word
30030	Read-Only	IEEE Float	DI4_F		high-order word
30031					low-order word
30032	Read-Only	IEEE Float	DI5_F		high-order word
30033					low-order word
30034	Read-Only	IEEE Float	DI6_F		high-order word
30035					low-order word
30036 - 39999	Read-Only			Not used	-

Holding Registers

03: Read Holding Registers
06: Write Single Registers
16: Write Multiple Registers

Address	Type of	Data Type	I/O	Information	Bit maps (- : not used)
40000	Read-Only	Word	Multi	Analog Input Out of Range Status	AI1 AI2 AI3 AI4 AI5 AI6
40001	Read-Only	Word	Multi	Digital Counter Input Out of Range Status	DI1_C DI2_C DI3_C DI4_C DI5_C DI6_C
40002	Read-Only	Word	Multi	Digital Frequency Input Out of Range Status	DI1_F DI2_F DI3_F DI4_F DI5_F DI6_F
40003	Read-Only	Word	Multi	Analog Input Local Override Status	AI1 AI2 AI3 AI4 AI5 AI6
40004	Read-Only	Word	Multi	Digital Input Local Override Status	DI1 DI2 DI3 DI4 DI5 DI6
40005	Read-Only	Word	Multi	Digital Counter Input Local Override Status	DI1_C DI2_C DI3_C DI4_C DI5_C DI6_C
40006	Read-Only	Word	Multi	Digital Frequency Input Local Override Status	DI1_F DI2_F DI3_F DI4_F DI5_F DI6_F
40007	Read-Write	Word	Multi	Analog Input Modbus Override Active Bit	AI1 AI2 AI3 AI4 AI5 AI6
40008	Read-Write	Word	Multi	Digital Input Modbus Override Active Bit	DI1 DI2 DI3 DI4 DI5 DI6
40009	Read-Write	Word	Multi	Digital Counter Input Modbus Override Active Bit	DI1_C DI2_C DI3_C DI4_C DI5_C DI6_C
40010	Read-Write	Word	Multi	Digital Frequency Input Modbus Override Active Bit	DI1_F DI2_F DI3_F DI4_F DI5_F DI6_F
40011	Read-Only	Word	Multi	Analog Output Local Override Status	AO1 AO2 AO3 AO4
40012	Read-Only	Word	Multi	Digital Output Local Override Status	SO1 SO2 RO1 RO2
40013	Read-Only	Word	Multi	Analog Output Alarm Active Status	AO1 AO2 AO3 AO4
40014	Read-Only	Word	Multi	Digital Output Alarm Active Status	SO1 SO2 RO1 RO2
40015	Read-Only	Word	Multi	Analog Output Recopy Active Status	AO1 AO2 AO3 AO4
40016	Read-Only	Word	Multi	Digital Output Recopy Active Status	SO1 SO2 RO1 RO2
40017	Read-Write	Word	Multi	Analog Output Modbus override active bit	AO1 AO2 AO3 AO4
40018	Read-Write	Word	Multi	Digital Output Modbus override active bit	SO1 SO2 RO1 RO2
40019 - 40999	Read-Only			Not used	-
41000	Read-Write	Word	DI1	Logical Input State (On / Off)	DI1
41001	Read-Write	Word	DI2		DI2
41002	Read-Write	Word	DI3		DI3
41003	Read-Write	Word	DI4		DI4
41004	Read-Write	Word	DI5		DI5
41005	Read-Write	Word	DI6		DI6
41006	Read-Write	Word	SO1	Logical Output State (On / Off)	SO1
41007	Read-Write	Word	SO2		SO2
41008	Read-Write	Word	RO1		RO1
41009	Read-Write	Word	RO2		RO2
41010 - 41999	Read-Only			Not used	-
42000	Read-Write	IEEE Float	AI1	Logical Analog Inputs Value	high-order word
42001					low-order word
42002	Read-Write	IEEE Float	AI2		high-order word
42003					low-order word
42004	Read-Write	IEEE Float	AI3		high-order word
42005					low-order word
42006	Read-Write	IEEE Float	AI4		high-order word
42007					low-order word
42008	Read-Write	IEEE Float	AI5		high-order word
42009					low-order word
42010	Read-Write	IEEE Float	AI6		high-order word
42011					low-order word
42012	Read-Write	IEEE Float	DI1_C	Logical Digital Counter Inputs Value	high-order word
42013					low-order word
42014	Read-Write	IEEE Float	DI2_C		high-order word
42015					low-order word
42016	Read-Write	IEEE Float	DI3_C		high-order word
42017					low-order word
42018	Read-Write	IEEE Float	DI4_C		high-order word
42019					low-order word
42020	Read-Write	IEEE Float	DI5_C		high-order word
42021					low-order word
42022	Read-Write	IEEE Float	DI6_C		high-order word
42023					low-order word
42024	Read-Write	IEEE Float	DI1_F	Logical Digital Frequency Inputs Value	high-order word
42025					low-order word
42026	Read-Write	IEEE Float	DI2_F		high-order word
42027					low-order word
42028	Read-Write	IEEE Float	DI3_F		high-order word
42029					low-order word
42030	Read-Write	IEEE Float	DI4_F		high-order word
42031					low-order word
42032	Read-Write	IEEE Float	DI5_F		high-order word
42033					low-order word
42034	Read-Write	IEEE Float	DI6_F		high-order word
42035					low-order word
42036	Read-Write	IEEE Float	AO1	Logical Analog Outputs Value	high-order word
42037					low-order word
42038	Read-Write	IEEE Float	AO2		high-order word
42039					low-order word
42040	Read-Write	IEEE Float	AO3		high-order word
42041					low-order word
42042	Read-Write	IEEE Float	AO4		high-order word
42043					low-order word
42044	Read-Write	IEEE Float	SO1	Logical Output Value (PWM value 0-100)	high-order word
42045					low-order word
42046	Read-Write	IEEE Float	SO2		high-order word
42047					low-order word
42048	Read-Write	IEEE Float	RO1		high-order word
42049					low-order word
42050	Read-Write	IEEE Float	RO2		high-order word
42051					low-order word
42052	Read-Only	IEEE Float	Vbatt	Battery level	high-order word
42053					low-order word
42054 - 42499	Read-Only			Not used	-
42500	Read-Write	IEEE Float	VAR 1	Internal Variable	high-order word
42501					low-order word
42502	Read-Write	IEEE Float	VAR 2		high-order word
42503					low-order word
...	Read-Write	IEEE Float	...		high-order word
...					low-order word
42998	Read-Write	IEEE Float	VAR N		high-order word
42999					low-order word
43000	Read-Write	INT 32	AI1	Logical Analog Inputs Value	high-order word
43001					low-order word
43002	Read-Write	INT 32	AI2		high-order word
43003					low-order word
43004	Read-Write	INT 32	AI3		high-order word
43005					low-order word
43006	Read-Write	INT 32	AI4		high-order word
43007					low-order word
43008	Read-Write	INT 32	AI5		high-order word
43009					low-order word
43010	Read-Write	INT 32	AI6		high-order word
43011					low-order word
43012	Read-Write	INT 32	DI1_C	Logical Digital Counter Inputs Value	high-order word
43013					low-order word
43014	Read-Write	INT 32	DI2_C		high-order word
43015					low-order word
43016	Read-Write	INT 32	DI3_C		high-order word
43017					low-order word
43018	Read-Write	INT 32	DI4_C		high-order word
43019					low-order word
43020	Read-Write	INT 32	DI5_C		high-order word
43021					low-order word
43022	Read-Write	INT 32	DI6_C		high-order word
43023					low-order word
43024	Read-Write	INT 32	DI1_F	Logical Digital Frequency Inputs Value	high-order word
43025					low-order word
43026	Read-Write	INT 32	DI2_F		high-order word
43027					low-order word
43028	Read-Write	INT 32	DI3_F		high-order word
43029					low-order word
43030	Read-Write	INT 32	DI4_F		high-order word
43031					low-order word
43032	Read-Write	INT 32	DI5_F		high-order word
43033					low-order word
43034	Read-Write	INT 32	DI6_F		high-order word
43035					low-order word
43036	Read-Write	INT 32	AO1	Logical Analog Outputs Value	high-order word
43037					low-order word
43038	Read-Write	INT 32	AO2		high-order word
43039					low-order word
43040	Read-Write	INT 32	AO3		high-order word
43041					low-order word
43042	Read-Write	INT 32	AO4		high-order word
43043					low-order word
43044	Read-Write	INT 32	SO1	Logical Output Value (PWM value 0-100)	high-order word
43045					low-order word
43046	Read-Write	INT 32	SO2		high-order word
43047					low-order word
43048	Read-Write	INT 32	RO1		high-order word
43049					low-order word
43050	Read-Write	INT 32	RO2		high-order word
43051					low-order word
43052	Read-Only	IEEE Float	Vbatt	Battery level	high-order word
43053					low-order word
43054 - 43499	Read-Only			Not used	-
43500	Read-Write	INT 32	VAR 1	Internal Variable	high-order word
43501					low-order word
43502	Read-Write	INT 32	VAR 2		high-order word
43503					low-order word
...	Read-Write	INT 32	...		high-order word
...					low-order word
43998	Read-Write	INT 32	VAR N		high-order word
43999					low-order word
44000	Read-Write	INT 32	PID 1	Number of zones (1-4)	low-order word
44001				Not used	-
44002	Read-Write	IEEE Float	PID 1	Zone 1 begins	high-order word
44003					low-order word
44004	Read-Write	IEEE Float	PID 1	Zone 1 ends	high-order word
44005					low-order word
44006	Read-Write	IEEE Float	PID 1	Zone 1 opening speed	high-order word
44007					low-order word
44008	Read-Write	IEEE Float	PID 1	Zone 1 closing speed	high-order word
44009					low-order word
44010	Read-Write	IEEE Float	PID 1	Zone 1 deadband	high-order word
44011					low-order word
44012	Read-Write	IEEE Float	PID 1	Zone 2 begins	high-order word
44013					low-order word
44014	Read-Write	IEEE Float	PID 1	Zone 2 ends	high-order word
44015					low-order word
44016	Read-Write	IEEE Float	PID 1	Zone 2 opening speed	high-order word
44017					low-order word
44018	Read-Write	IEEE Float	PID 1	Zone 2 closing speed	high-order word
44019					low-order word
44020	Read-Write	IEEE Float	PID 1	Zone 2 deadband	high-order word
44021					low-order word
...	Read-Write	IEEE Float	PID 1	:	high-order word
...					low-order word
44040	Read-Write	IEEE Float	PID 1	Zone 4 deadband	high-order word
44041					low-order word
44042 - 44049	Read-Only			Not used	-
44050	Read-Write	IEEE Float	PID 2	Number of zones (1-4)	low-order word
44051				Not used	-
...	Read-Write	IEEE Float	PID 2	:	high-order word
...					low-order word
44090	Read-Write	IEEE Float	PID 2	Zone 4 deadband	high-order word
44091					low-order word
44092 - 44099	Read-Only			Not used	-
44100	Read-Write	IEEE Float	PID 3	Number of zones (1-4)	low-order word
44101				Not used	-
...	Read-Write	IEEE Float	PID 3	:	high-order word
...					low-order word
44140	Read-Write	IEEE Float	PID 3	Zone 4 deadband	high-order word
44141					low-order word
44142 - 44149	Read-Only			Not used	-
44150	Read-Write	IEEE Float	PID 4	Number of zones (1-4)	low-order word
44151				Not used	-
...	Read-Write	IEEE Float	PID 4	:	high-order word
...					low-order word
44190	Read-Write	IEEE Float	PID 4	Zone 4 deadband	high-order word
44191					low-order word
44192 - 44200	Read-Only			Not used	-