

KOSMOS SERIES

CODE: 30727253 EDITION: 21.10.2015

MODBUS MAP ADDRESSES



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Programming Data (Read/Write)			
Word	Byte	Variable	Description
0	0	InputType	0=Process, 1=Load Cell, 2=Temperature
	1	ProcessType	0=10V, 1=20mA
1	2	LoadRange	0=15mV, 1=30mV, 2=150mV
	3	TempInput	0=Pt100, 1=Thermocouple
2	4	TCType	0=J, 1=K, 2=T, 3=N
	5	TempUnits	0=°C, 1=°F
3	6	TempDecP	0=1°, 1=0.1°
	7	NScalingPoints	2 to 11
4	8	Input 1 [5]	Digit 4
	9		Digit 3
			Digit 2
5	10		Digit 1
	11		Digit 0
6	12	Input 2 [5]	Digit 4
	13		Digit 3
7	14		Digit 2
	15		Digit 1
8	16		Digit 0
9	18	Input 3 [5]	Digit 4
	19		Digit 3
			Digit 2
10	20		Digit 1
	21		Digit 0
11	22		

	23	Input 4 [5]	Digit 4
12	24		Digit 3
	25		Digit 2
13	26		Digit 1
	27		Digit 0
14	28	Input 5 [5]	Digit 4
	29		Digit 3
15	30		Digit 2
	31		Digit 1
16	32		Digit 0
	33	Input 6 [5]	Digit 4
17	34		Digit 3
	35		Digit 2
18	36		Digit 1
	37		Digit 0
19	38	Input 7 [5]	Digit 4
	39		Digit 3
20	40		Digit 2
	41		Digit 1
21	42		Digit 0
	43	Input 8 [5]	Digit 4
22	44		Digit 3
	45		Digit 2
23	46		Digit 1
	47		Digit 0

24	48	Input 9 [5]	Digit 4
	49		Digit 3
25	50		Digit 2
	51		Digit 1
26	52		Digit 0
	53	Input 10 [5]	Digit 4
27	54		Digit 3
	55		Digit 2
28	56		Digit 1
	57		Digit 0
29	58	Input 11 [5]	Digit 4
	59		Digit 3
30	60		Digit 2
	61		Digit 1
31	62		Digit 0
	63	Display 1 [5]	Digit 4
32	64		Digit 3
	65		Digit 2
33	66		Digit 1
	67		Digit 0
34	68	Display 2 [5]	Digit 4
	69		Digit 3
35	70		Digit 2
	71		Digit 1
36	72		Digit 0
	73	Display 3 [5]	Digit 4
37	74		Digit 3
	75		Digit 2

38	76	Display 4 [5]	Digit 1
	77		Digit 0
39	78		Digit 4
	79		Digit 3
40	80		Digit 2
	81		Digit 1
41	82		Digit 0
	83	Display 5 [5]	Digit 4
42	84		Digit 3
	85		Digit 2
43	86		Digit 1
	87		Digit 0
44	88	Display 6 [5]	Digit 4
	89		Digit 3
45	90		Digit 2
	91		Digit 1
46	92		Digit 0
	93	Display 7 [5]	Digit 4
47	94		Digit 3
	95		Digit 2
48	96		Digit 1
	97		Digit 0
49	98	Display 8 [5]	Digit 4
	99		Digit 3
50	100		Digit 2
	101		Digit 1
51	102		Digit 0
	103	Display 9 [5]	Digit 4

52	104		Digit 3
	105		Digit 2
53	106		Digit 1
	107		Digit 0
54	108	Display 10 [5]	Digit 4
	109		Digit 3
55	110		Digit 2
	111		Digit 1
56	112		Digit 0
	113	Display 11 [5]	Digit 4
57	114		Digit 3
	115		Digit 2
58	116		Digit 1
	117		Digit 0
59	118	DecimalPoint	0 =99999, 1 =9999.9, 2 =999.99, 3 =99.999, 4 =9.9999
	119	OffsetTemp [3]	Digit 2
60	120		Digit 1
	121		Digit 0
61	122	FilterP	0 to 9
	123	<i>reserved</i>	
62	124	Round	0 =01, 1 =02, 2 =05, 3 =10
	125	Input Error Limit	0 =NO, 1 =YES
63	126	Tare Mode	0 =Tare1, 1 =Tare2, 2 =Tare3
	127	Tare Set Value [5]	Digit 4
64	128		Digit 3
	129		Digit 2

65	130		Digit 1
	131		Digit 0
66	132	Mode RUN Color	0 =Amber, 1 =Red, 2 =Green
	133	Mode PROG Color	0 =Amber, 1 =Red, 2 =Green
67	134	Brightness	0 =HI, 1 =LO
	135	ECO Mode	0 =OFF, 1 =ON
68	136	ECO Mode Minutes [2] (00 to 99 min)	Digit 1
	137		Digit 0
69	138	Setpoint 1 Value [5]	Digit 4
	139		Digit 3
70	140		Digit 2
	141		Digit 1
71	142	Setpoint 2 Value [5]	Digit 0
	143		Digit 4
72	144		Digit 3
	145		Digit 2
73	146	Setpoint 3 Value [5]	Digit 1
	147		Digit 0
74	148		Digit 4
	149		Digit 3
75	150	Setpoint 4 Value [5]	Digit 2
	151		Digit 1
76	152		Digit 0
	153		Digit 4
77	154		Digit 3
	155		Digit 2

78	156		Digit 1
	157		Digit 0
79	158	Setpoint 1 Delay/Hysteresis [5]	Digit 4 (if Hysteresis)
	159		Digit 3 (if Hysteresis)
80	160		Digit 2 (if Hysteresis)
	161		Digit 1
81	162		Digit 0
	163	Setpoint 2 Delay/Hysteresis [5]	Digit 4 (if Hysteresis)
82	164		Digit 3 (if Hysteresis)
	165		Digit 2 (if Hysteresis)
83	166		Digit 1
	167		Digit 0
84	168	Setpoint 3 Delay/Hysteresis [5]	Digit 4 (if Hysteresis)
	169		Digit 3 (if Hysteresis)
85	170		Digit 2 (if Hysteresis)
	171		Digit 1
86	172		Digit 0
	173	Setpoint 4 Delay/Hysteresis [5]	Digit 4 (if Hysteresis)
87	174		Digit 3 (if Hysteresis)
	175		Digit 2 (if Hysteresis)
88	176		Digit 1
	177		Digit 0
89	178	<i>reserved</i>	
	179		
90	180	<i>reserved</i>	
	181		
91	182	<i>reserved</i>	
	183		

92	184	<i>reserved</i>	
	185		
93	186	ON/OFF Setpoint 1	0=OFF, 1=ON
	187	ON/OFF Setpoint 2	0=OFF, 1=ON
94	188	ON/OFF Setpoint 3	0=OFF, 1=ON
	189	ON/OFF Setpoint 4	0=OFF, 1=ON
95	190	HI/LO Setpoint 1	0=HI, 1=LO
	191	HI/LO Setpoint 2	0=HI, 1=LO
96	192	HI/LO Setpoint 3	0=HI, 1=LO
	193	HI/LO Setpoint 4	0=HI, 1=LO
97	194	Setpoint 1 Delay / Hysteresis	0=DLY, 1=HYS
	195	Setpoint 2 Delay / Hysteresis	0=DLY, 1=HYS
98	196	Setpoint 3 Delay / Hysteresis	0=DLY, 1=HYS
	197	Setpoint 4 Delay / Hysteresis	0=DLY, 1=HYS
99	198	NoNc Setpoint 1	0=NO, 1=NC
	199	NoNc Setpoint 2	0=NO, 1=NC
100	200	NoNc Setpoint 3	0=NO, 1=NC
	201	NoNc Setpoint 4	0=NO, 1=NC
101	202	Setpoint 1 Comparison Value	0=Net, 1=Gross
	203	Setpoint 2 Comparison Value	0=Net, 1=Gross

102	204	Setpoint 3 Comparison Value	0=Net, 1=Gross
	205	Setpoint 4 Comparison Value	0=Net, 1=Gross
103	206	Setpoint 1 Color	0=No Change, 1=Amber, 2=Red, 3=Green
	207	Setpoint 2 Color	0=No Change, 1=Amber, 2=Red, 3=Green
104	208	Setpoint 3 Color	0=No Change, 1=Amber, 2=Red, 3=Green
	209	Setpoint 4 Color	0=No Change, 1=Amber, 2=Red, 3=Green
105	210	<i>reserved</i>	
	211	<i>reserved</i>	
106	212	<i>reserved</i>	
	213	<i>reserved</i>	
107	214	Analogue Output HI [5]	Digit 4 (if Hysteresis)
	215		Digit 3 (if Hysteresis)
108	216		Digit 2 (if Hysteresis)
	217		Digit 1
109	218	Analogue Output LO [5]	Digit 0
	219		Digit 4 (if Hysteresis)
110	220		Digit 3 (if Hysteresis)
	221		Digit 2 (if Hysteresis)
111	222		Digit 1
	223		Digit 0

112	224	<i>reserved</i>	
	225	On Error Analogue Output	0=HI, 1=LO
113	226	Locking code [4]	Digit 3
	227		Digit 2
114	228		Digit 1
	229		Digit 0
115	230	Programming Lock (1)	Bit 0 : Lock Set 1 Bit 1 : Lock Set 2 Bit 2 : Lock Set 3 Bit 3 : Lock Set 4 Bit 4 : Lock Input Bit 5 : Lock Display Bit 6 : Lock Filter
	231	Programming Lock (2)	Bit 0 : Lock Prog Direct Setpoints Bit 1 : Lock RS / ETH ports Bit 2 : Lock Logical Functions Bit 3 : Total Lock (except keypad) Bit 4 : Lock Analogue Output
116	232	Programming Lock (3)	Bit 0 : Lock Brightness-Color-Eco Bit 1 : - Bit 2 : Lock TARE key Bit 3 : Lock MAX/MIN key
	233	Logic Function IN 1	Functions List : 1 : 2 : ...
117	234	Logic Function IN 2	
	235	Logic Function IN 3	

Programming Data (Read Only)			
118	236	IP adress Ethernet Port	IPAddress [0]
	237		IPAddress [1]
119	238		IPAddress [2]
	239		IPAddress [3]
120	240	Unit Adresse RS232/485 Port	RS Address [0]
	241		RS Address [1]
121	242	Baud Rate RS232/485	0=1200, 1=2400, 2=4800, 3=9600, 4=19200
	243	Protocol RS232/485	0=ASCII, 1=ISO1745, 2=Modbus RTU
122	244	Delay Response RS485	0=No, 1=30ms, 2=60ms, 3=120ms, 4=250ms
	245	<i>reserved</i>	
Dynamic Values (Read Only)			
131	262	Display Value (Long Format)	
	263		
132	264		
	265		
133	266	Input Value (Long Format)	
	267		
134	268		
	269		

135	270	Display Decimal Point	0=99999, 1=9999.9, 2=999.99, 3=99.999, 4=9.9999
	271	Input Decimal Point	0=99999, 1=9999.9, 2=999.99, 3=99.999, 4=9.9999
136	272	Tare Set Value (Long Format)	
	273		
137	274		
	275		
138	276	Tare Value (Long Format)	
	277		
139	278		
	279		
140	280	Max Value (Long Format)	
	281		
141	282		
	283		
142	284	Min Value (Long Format)	
	285		
143	286		
	287		
144	288	Overflow Input Sign (actual or last)	0="+", 1="-"
	289	Overflow Display Sign (actual or last)	0="+", 1="-"
145	290	Overflow Input	0= NO, 1=Yes
	291	Overflow Display	0= NO, 1=Yes

146	292	Setpoint 1 Value (Long Format)	
	293		
147	294		
	295		
148	296	Setpoint 2 Value (Long Format)	
	297		
149	298		
	299		
150	300	Setpoint 3 Value (Long Format)	
	301		
151	302		
	303		
152	304	Setpoint 4 Value (Long Format)	
	305		
153	306		
	307		
154	308	<i>reserved</i>	
	309	<i>reserved</i>	
155	310	<i>reserved</i>	
	311	<i>reserved</i>	
156	312	Status Alarm Setpoint 1	
	313	Status Alarm Setpoint 2	
157	314	Status Alarm Setpoint 3	
	315	Status Alarm Setpoint 4	
158	316	Actual Display Color	0 =Amber, 1 =Red, 2 =Green
	317	Actual Display Brightness	0 =HI, 1 =LO
159	318	Sensor Break Error	0 = NO, 1 =Yes
	319	Input Limit Error	0 = NO, 1 =Yes

160	320	installed Options	
	321	<i>reserved</i>	
161	322	Software Version	200
	323	Hardware Version	0x6D = "m"
Dynamic Values (Write Only)			
1136	2272	Tare Set Value (Long Format)	Not saved in memory
	2273		
	2274		
	2275		
1146	2276	Setpoint 1 Value (Long Format)	Not saved in memory
	2277		
1147	2278		
	2279		
1148	2280	Setpoint 2 Value (Long Format)	Not saved in memory
	2281		
1149	2282	Cal_Pointer	
	2283		
1150	2284	Setpoint 3 Value (Long Format)	Not saved in memory
	2285		
1151	2286		
	2287		
1152	2288	Setpoint 4 Value (Long Format)	Not saved in memory
	2289		
1153	2290		
	2291		

Commands

116	"t"	Tare	Add display value to tare memory and set the display to zero. Sample of frame in hexadecimal for unit n° 1 : 01 05 00 74 FF 00 CC 20
114	"r"	Tare Reset	Add the tare value to the display value and clear the tare memory. Sample of frame in hexadecimal for unit n° 1 : 01 05 00 72 FF 00 2C 21
112	"p"	Reset Max	Reset the MAX ("Peak") value. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 00 70 FF 00 8D E1
118	"v"	Reset Min	Reset the MIN ("Val") value. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 00 76 FF 00 6D E0
98+49	"b1"	Brightness HI	Change the display brightness to HI. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 62 31 FF 00 C2 4D
98+50	"b2"	Brightness LO	Change the display brightness to LO. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 62 32 FF 00 32 4D
99+49	"c1"	Color Display Orange	Change the color display to Orange. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 63 31 FF 00 C3 B1
99+50	"c2"	Color Display Red	change the color display to Red. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 63 32 FF 00 33 B1
99+51	"c3"	Color Display Green	change the color display to Red. Not saved in memory Sample of frame in hexadecimal for unit n° 1 : 01 05 63 33 FF 00 62 71