Modbus Register
ULTRATURB seawater sc

V3.06

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
measurement	40001	Float	2	R		0 /2500	diplayed measurement value
unit	40003	Unsigned Integer	1	R/W	U0 /6 /7 /8 /9		unit
parameter	40004	Unsigned Integer	1	R/W	P0		parameter
reserved	40005	Unsigned Integer	1	R		0 /0	reserved
correction	40006	Float	2	R/W		0,5 /2,0	correction
offset	40008	Float	2	R/W		-0,1 /0,1	offset
reserved	40010	Unsigned Integer	1	R		0 /12	reserved
cleaning_interval	40011	Unsigned Integer	1	R/W	10 /20 /30 /120 /360 /720 /4096		cleaning interval
led_current	40012	Integer	1	R		0 /32767	LED current
wiper state	40013	Unsigned Integer	1	R/W	1 /2 /0		wiper state
resp time	40014	Unsigned Integer	1	R/W		1 /60	response time
drv_struct_ver	40015	Unsigned Integer	1	R		0 /255	driver structure version
drv_firmw_ver	40016	Unsigned Integer	1	R		0 /255	driver firmware version
drv_cont_ver	40017	Unsigned Integer	1	R		0 /255	driver content version
location	40018	String	8	R/W			location
profile	40026	Integer	2	R		-2147483648 /2147483647	profile counter
motor_cycles	40028	Unsigned Integer	2	R		0 /1000000000	motor cycles
operating_hours	40030	Unsigned Integer	2	R		0 /1000000000	operating hours
service_counter	40032	Integer	2	R		-2147483648 /2147483647	service counter
profile reset val	40034	Unsigned Integer	2	R		0 /1000000000	profile reset val
service reset val	40036	Unsigned Integer	2	R		0 /1000000000	service reset val
des_measurement	40038	Float	2	R/W		0 /10000	desired measurement value
des_measurement	40038	Float	2	R/W		0 /0.1	desired measurement value
des_measurement	40038	Float	2	R/W		15 /20	desired measurement value
meas_single_value	40040	Float	2	R		0 /10000	measurement single value
M	40042	Float	2	R		0 /100000	m
R	40044	Float	2	R		0 /10000	r
ouotient	40046	Float	2	R		0 /1000000	quotient
humidity_main	40048	Float	2	R		0 /100	humidity - main
cal_date	40050	Time2	2	R			calibration time and date
user_cal_date	40052	Time2	2	R			user calibration time and date
fac_meas_0	40054	Float	2	R		0 /1000	factor meas. 0
fac_meas_1	40056	Float	2	R		0 /1000	factor meas. 1
fac_meas_2	40058	Float	2	R		0 /1000	factor meas 2
fac_meas_3	40060	Float	2	R		0 /1000	factor meas. 3
fac_ref_0	40062	Float	2	R		0 /1000	factor ref 0
fac_ref_1	40064	Float	2	R		0 /1000	factor ref 1
fac_quo_q	40066	Float	2	R/W		0 /1000	factor quotient q

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dist_q	40068	Float	2	R/W		-1000 /1000	distortion light q
fac_quo_m	40070	Float	2	R/W		0 /1000	factor quotient m
dist_m	40072	Float	2	R/W		-1000 /1000	distortion light m
prg_vers	40074	String	4	R			program version
ser_no	40078	Unsigned Integer	2	R		0 /1000000000	serial number
process	40080	Unsigned Integer	1	R/W		0 /65535	process register
menu	40081	Unsigned Integer	1	R/W		0 /65535	menu state
user_cal_int	40082	Unsigned Integer	1	R/W		0 /365	user cal int
cal_out_cfg	40083	Unsigned Integer	1	R/W	0 /1 /2 /3		cal. Output mode
meas_mode	40084	Unsigned Integer	1	R/W	0 /1		measure mode
meas_val_format	40085	Integer	2	R		-2147483648 /2147483647	measurement format
meas_prec	40087	Unsigned Integer	1	R/W	0 /1		measurement precesion
logger_int	40088	Unsigned Integer	1	R/W	5 /30 /60 /120 /300 /600 /900 /1800		logger interval
service output	40089	Unsigned Integer	1	R/W	0 /1 /2 /3		service output mode
modelnumber	40090	Unsigned Integer	1	R	0 /1 /2 /3		model type

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ALL Sensors and Analyzer: Classified ERROR Word - Register 49930

Table 2 Error register

Bit	Error	Description
0	Calibration error	Faulty calibration detected
1	Electronic settings error	Faulty electronic calibration/settings
2	Cleaning error	Error in cleaning cycle detected
3	Measuring module error	Error in measuring module detected
4	System initialization	Inconsistent settings detected, reset to factory settings
5	Hardware error	Faulty hardware detected
6	Internal communication error	Internal communication error detected
7	Humidity error	Excessive humidity detected
8	Excessive temperature	Excessive temperature detected
9		
10	Sample feed warning	Error in sample feed detected
11	Questionable calibration warning	Accuracy of previous calibration inadequate
12	Questionable measurement warning	Accuracy of previous measurement inadequate/out of range
13	Safety warning	Safety equipment error detected
14	Reagent warning	Reagent warning, e.g. fill level < min detected
15	Service request warning	Service request detected

ALL Sensors and Analyzer: Classified STATUS Word - Register 49931

Table 3 Status register

Bit	Status 1	Description
0	Calibration activated	Calibration in progress, measurement value not up to date
1	Cleaning activated	Cleaning in progress, measurement value not up to date
2	Service mode activated	Device in "Service" mode, measurement value not up to date
3	General error message	General error detected, refer to error text for details
4	Measurement value channel 0, poor quality	Measurement accuracy is not within specified limits
5	Measurement value channel 0, range short-fall	Measurement value falls short of the specified range
6	Measurement value channel 0, range exceeded	Measurement value exceeds the specified range
7	Measurement value channel 1, poor quality	Measurement accuracy is not within specified limits
8	Measurement value channel 1, range short-fall	Measurement value falls short of the specified range
9	Measurement value channel 1, range exceeded	Measurement value exceeds the specified range
10	Measurement value channel 2, poor quality	Measurement accuracy is not within specified limits
11	Measurement value channel 2, range short-fall	Measurement value falls short of the specified range
12	Measurement value channel 2, range exceeded	Measurement value exceeds the specified range
13	Measurement value channel 3, poor quality	Measurement accuracy is not within specified limits
14	Measurement value channel 3, range short-fall	Measurement value falls short of the specified range
15	Measurement value channel 3, range exceeded	Measurement value exceeds the specified range