

Modbus Register SONATAX SC

V1.15

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
SLUDGELEVEL m	40001	Float	2	R			measurment sludgelevel feet
SLUDGELEVEL ft	40003	Float	2	R			measurment sludgelevel meter
SLUDGEHEIGHT m	40005	Float	2	R			mesurment sludgeheight feet
SLUDGEHEIGHT ft	40007	Float	2	R			mesurment sludgeheight meter
PLUNGERDEPTH m	40009	Float	2	R/W		0.1 /3	plungerdepth feet
PLUNGERDEPTH ft	40011	Float	2	R/W		0.32808 /9.8424	plungerdepth meter
BOTTOM m	40013	Float	2	R/W		1 /12	distance to bottom feet
BOTTOM ft	40015	Float	2	R/W		3.2808 /39.3696	distance to bottom meter
SET PARAMETER	40017	Unsigned Integer	1	R/W	P23 /24		parameter (level/height)
MEAS UNITS	40018	Unsigned Integer	1	R/W	U43 /13		unit (meter/feet)
FACTOR	40019	Float	2	R/W		0.3 /3	measurment factor
WIPE	40021	Unsigned Integer	1	R/W		1 /65535	wiper register (wipes this count)
EDITED NAME	40022	String	8	R/W			location of sensor
CLEAN. INTERVAL	40030	Unsigned Integer	1	R/W	1 /5 /10 /15 /60 /240 /720 /1440		cleaning interval
RESPONSE TIME	40031	Unsigned Integer	1	R/W		10 /600	response time
FADE-OUT	40032	Unsigned Integer	1	R/W	0 /1		fade out
BEGIN m	40033	Float	2	R/W		0 /12	fade out begin meter
BEGIN ft	40035	Float	2	R/W		0 /39.3696	fade out begin feet
END m	40037	Float	2	R/W		0 /12	fade out end meter
END ft	40039	Float	2	R/W		0 /39.3696	fade out end feet
LOGGER INTERVAL	40041	Unsigned Integer	1	R/W	60 /120 /180 /240 /300 /360 /600 /900 /1800		timer logger interval
THRESHOLD AUTO	40042	Unsigned Integer	1	R/W	0 /25 /50 /75 /80 /85 /90 /95		threshold setting
THRESHOLD	40043	Float	2	R/W		0.1 /50	threshold value
WINDOW	40045	Unsigned Integer	1	R/W	0 /10 /20 /30 /40 /50 /75		measurment window
PROFILE COUNTER	40046	Unsigned Integer	1	R		0 /40000	wiper profile counter
SERIAL NUMBER	40047	String	6	R			serial number
TEST / MAINT	40053	Time2	2	R			TEST / MAINT
PROGRAM	40055	Float	2	R			version program
BOOTPROG.	40057	Float	2	R			version bootloader
STRUCTURE	40059	Unsigned Integer	1	R		0 /255	version structure
FIRMWARE	40060	Unsigned Integer	1	R		0 /255	version firmware
CONTENT	40061	Unsigned Integer	1	R		0 /255	version content
FormatMinSL m	40062	Float	2	R			range minimum level meter
FormatMaxSL m	40064	Float	2	R			range maximum level meter
FormatMinSL ft	40066	Float	2	R			range minimum level feet
FormatMaxSL ft	40068	Float	2	R			range maximum level feet
FormatMinSH m	40070	Float	2	R			range minimum height meter
FormatMaxSH m	40072	Float	2	R			range maximum height meter

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FormatMinSH ft	40074	Float	2	R			range minimum height feet
FormatMaxSH ft	40076	Float	2	R			range maximum height feet
MOIST	40078	Unsigned Integer	1	R		0 /100	moisture
TEMPERATURE	40079	Unsigned Integer	1	R		0 /70	temperature °C
SENSOR ANGLE	40080	Unsigned Integer	1	R		0 /100	angle of sensor
FREQUENCY	40081	Unsigned Integer	1	R		700 /1400	measurment frequency
AMPL DIAG	40082	Unsigned Integer	1	R		5 /125	measurment amplitude

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