Modbus Register
918x sc V2

V 2.04

HACH®

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918x sc V2 V 2.04

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Main Measurement Parameter in mg/l	40001	Float	2	R	mg /l		
pH Measurement Param.	40003	Float	2	R	pH		
Temperature measurement	40005	Float	2	R	C		
Current Measurement Parameter in µA	40007	Float	2	R	µA		
Main Measurement Parameter in ppm	40009	Float	2	R	ppm		
Main Measurement Parameter in ppb	40011	Float	2	R	ppb		
Main Measurement Parameter in µg/l	40013	Float	2	R	µg /l		
Current Measurement Parameter in nA	40015	Float	2	R	nA		
Raw pH measurement	40017	Float	2	R	pH		
mV Raw measurement	40019	Float	2	R	mV		
Raw Temperature measurement	40021	Float	2	R	C		
AutoRange Concentration in ppX	40023	Unsigned Integer	1	R			
AutoRange Concentration in Xg/l	40024	Unsigned Integer	1	R			
AutoRange Current	40025	Unsigned Integer	1	R			
Concentration Tag-based	40026	Unsigned Integer	1	R			
Temperature Tag-based	40027	Unsigned Integer	1	R			
Sensor Name	40028	String	6	R/W			
Function code	40034	Unsigned Integer	1	R/W			
Next Step	40035	Unsigned Integer	1	R			
Password	40036	Unsigned Integer	1	R/W			
Serial Number[0]	40037	Unsigned Integer	1	R/W			
Serial Number[1]	40038	Unsigned Integer	1	R/W			
Serial Number[2]	40039	Unsigned Integer	1	R/W			
Application toogle	40040	Unsigned Integer	1	R/W			0/1/2/3/4
Active Concentration unit	40041	Unsigned Integer	1	R/W			
Concentration unit toogle	40042	Unsigned Integer	1	R/W			0/1/2/4/3/5
Temperature unit toogle	40043	Unsigned Integer	1	R/W			0/1
Concentration Slope unit	40044	Unsigned Integer	1	R			U85/86/87/88
Compensation pH toogle	40045	Unsigned Integer	1	R/W			1/0
pH display format toogle	40046	Unsigned Integer	1	R/W			0/1

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
---	40047	Unsigned Integer	2	R/W			
Averaging	40049	Unsigned Integer	1	R/W	s		
Automatic/Manual temperature toogle	40050	Unsigned Integer	1	R/W			1/0
Manual Temperature unit	40051	Unsigned Integer	1	R/W			
Manual Temperature	40052	Float	2	R/W	C		
Max pH	40054	Float	2	R/W	pH		
Manual pH	40056	Float	2	R/W	pH		
50/60 Hz toogle	40058	Unsigned Integer	1	R/W			0/1
Output Mode	40059	Unsigned Integer	1	R/W			0/1/2
---	40060	Unsigned Integer	1	R			
---	40061	Unsigned Integer	1	R			
---	40062	Unsigned Integer	1	R/W			
---	40063	Unsigned Integer	1	R/W			
---	40064	Unsigned Integer	1	R			
---	40065	Unsigned Integer	1	R			
---	40066	Unsigned Integer	1	R			
---	40067	Float	2	R/W	C		
---	40069	Float	2	R	pH		
---	40071	Float	2	R	C		
Temperature Offset	40073	Float	2	R/W	C		
Temperature Offset unit	40075	Unsigned Integer	1	R/W			
pH Buffer 1 Measurement	40076	Float	2	R/W	pH		
pH Buffer 2 Measurement	40078	Float	2	R/W	pH		
Cal Conc Measurement	40080	Float	2	R/W	Active Concentration unit		
Cal TFC Measurement	40082	Float	2	R/W	ppb		
Output Mode	40084	Unsigned Integer	1	R/W			0/1/2/3
Software version	40085	Float	2	R			
Serial Number	40087	String	6	R			
pH Offset	40093	Float	2	R/W	pH		
pH Slope	40095	Float	2	R/W	%		
Concentration Offset	40097	Float	2	R	µA		
Concentration Slope	40099	Float	2	R	Concentration Slope unit		
Calibration Return Status	40101	Unsigned Integer	1	R/W			
Time between two calibrations	40102	Unsigned Integer	1	R/W	Day		0/1/7/30/60/90/180/270/365/730

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Concentration zero toogle	40103	Unsigned Integer	1	R/W			0/1
Time from start up	40104	Unsigned Integer	1	R	Day		
DriverVersion_float	40105	Float	2	R			
---	40107	Float	2	R	pH		
Measurement Logging Interval	40109	Unsigned Integer	1	R/W			
Temperature Logging Interval	40110	Unsigned Integer	1	R/W			

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