Modbus Register
NISE sc

V1.03

HACH®

Be Right™

NISE sc V1.03

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Nitrate NO3-N	40001	Float	2	R		0 /1500	
Nitrate NO3	40003	Float	2	R		0 /6643	
Chloride	40005	Float	2	R		0 /1500	
TEMPERATURE [C]	40007	Float	2	R		0 /60	
TEMPERATURE [F]	40009	Float	2	R		-54 /180	
Chlorine compensation	40013	Unsigned Integer	1	R/W	0 /1		
Logger Interval	40014	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7		
Response Interval	40015	Unsigned Integer	1	R/W		10 /1800	
TEMP UNITS	40016	Unsigned Integer	1	R/W	U25 /26		
SET PARAMETER	40017	Unsigned Integer	1	R/W	0 /1		
MEAS UNITS	40018	Unsigned Integer	1	R/W	U0 /2		
TEMP ADJUST [C]	40019	Float	2	R/W		-1.5 /1.5	
TEMP ADJUST [F]	40021	Float	2	R/W		-2.7 /2.7	
Location	40024	String	8	R/W			
SENSORCODE	40033	String	8	R/W			
CART. NO.	40041	Unsigned Integer	2	R		0 /9999999	
SERIAL NUMBER	40043	String	6	R/W			
AC Code Version	40049	Float	2	R		0 /3.40282347 E+38	
BC Code Version	40051	Float	2	R		0 /3.40282347 E+38	
Structure DD	40053	Unsigned Integer	1	R		0 /255	
Content DD	40054	Unsigned Integer	1	R		0 /255	
Firmware DD	40055	Unsigned Integer	1	R		0 /255	
Moist [%]	40056	Unsigned Integer	1	R		0 /100	
Cl subsitute value	40058	Float	2	R/W		0 /1500	
Nitrate mV	40060	Float	2	R		-2000 /2000	
Nitrate Drift	40062	Float	2	R		-2000 /2000	
Nitrate Noise	40064	Float	2	R		-2000 /2000	
Chloride mV	40066	Float	2	R		-2000 /2000	
Chloride Drift	40068	Float	2	R		-2000 /2000	
Chloride Noise	40070	Float	2	R		-2000 /2000	
Reference mV	40072	Float	2	R		-2000 /2000	
Reference Drift	40074	Float	2	R		-2000 /2000	
Reference Noise	40076	Float	2	R		-2000 /2000	
Reference 2 [mV]	40078	Float	2	R		-2000 /2000	
Temperatur [mV]	40084	Float	2	R		-2000 /2000	
Date of point Matrix 1 Nitrate	40091	Time2	2	R			
Nitrate point Matrix 1	40093	Float	2	R/W		0 /1500	
Date of point Matrix 1 Chloride	40095	Time2	2	R			

HACH®
Be Right™

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Chloride point Matrix 1	40097	Float	2	R/W		0 /1500	
Date of point 1 Matrix 2 Nitrate	40099	Time2	2	R			
Nitrate point 1Matrix 2	40101	Float	2	R/W		0 /1500	
Date of point 2 Matrix 2 Nitrate	40103	Time2	2	R			
Nitrate point 2 Matrix 2	40105	Float	2	R/W		0 /1500	
Slope NO3-N	40126	Float	2	R			
Offset NO3-N	40128	Float	2	R			
Slope CL-	40132	Float	2	R			
Offset CL-	40134	Float	2	R			
NO3 impedance	40146	Float	2	R			
CL impedance	40148	Float	2	R			
Phd impedance	40150	Float	2	R			
REF2 impedance	40152	Float	2	R			
GNDROD	40174	Integer	1	R/W		-1000 /1000	

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