Modbus Register
AISE sc

V 1.14

HACH®

Be Right™

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
AMMONIUM NH4-N	40001	Float	2	R	mg /l	NH4-N	
AMMONIUM NH4	40003	Float	2	R	mg /l	NH4	
Potassium	40005	Float	2	R	MEAS UNITS	K+	
TEMPERATURE [C]	40007	Float	2	R	C		
TEMPERATURE [F]	40009	Float	2	R	F		
K+ compensation	40013	Unsigned Integer	1	R/W			0/1
Logger Interval	40014	Unsigned Integer	1	R/W	s		0/1/2/3/4/5/6/7
Response Interval	40015	Unsigned Integer	1	R/W	s		
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	C		
TEMP ADJUST [F]	40021	Float	2	R/W	F		
FREI	40023	Unsigned Integer	1	R/W			
Location	40024	String	8	R/W			
SENSORCODE	40033	String	8	R/W			
CART. NO.	40041	Unsigned Integer	2	R			
SERIAL NUMBER	40043	String	6	R/W			
AC Code Version	40049	Float	2	R			
BC Code Version	40051	Float	2	R			
Structure DD	40053	Unsigned Integer	1	R			
Content DD	40054	Unsigned Integer	1	R			
Firmware DD	40055	Unsigned Integer	1	R			
Moist [%]	40056	Unsigned Integer	1	R	%		
K+ subsitute value	40058	Float	2	R/W	MEAS UNITS	K+	
Ammonium mV	40060	Float	2	R	mV		
Ammonium Drift	40062	Float	2	R	mV		
Ammonium Noise	40064	Float	2	R	mV		
Potassium mV	40066	Float	2	R	mV		
Potassium Drift	40068	Float	2	R	mV		
Potassium Noise	40070	Float	2	R	mV		
Reference mV	40072	Float	2	R	mV		
Reference Drift	40074	Float	2	R	mV		
Reference Noise	40076	Float	2	R	mV		
Reference 2 [mV]	40078	Float	2	R	mV		
Temperatur [mV]	40084	Float	2	R	mV		
Date of point Matrix 1 Ammonium	40091	Time2	2	R			
Ammonium point Matrix 1	40093	Float	2	R/W	MEAS UNITS	NH4-N	
Date of point Matrix 1 Potassium	40095	Time2	2	R			

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Potassium point Matrix 1	40097	Float	2	R/W	MEAS UNITS	K+	
Date of point 1 Matrix 2 Ammonium	40099	Time2	2	R			
Ammonium point 1 Matrix 2	40101	Float	2	R/W	MEAS UNITS	NH4-N	
Date of point 2 Matrix 2 Ammonium	40103	Time2	2	R			
Ammonium point 2 Matrix 2	40105	Float	2	R/W	MEAS UNITS	NH4-N	
Slope NH4-N	40126	Float	2	R			
Offset NH4-N	40128	Float	2	R			
Slope K+	40132	Float	2	R			
Offset K+	40134	Float	2	R			
NH4 impedance	40148	Float	2	R	M<Ohm>		
Frei 1 impedance	40150	Float	2	R	M<Ohm>		
K+ impedance	40152	Float	2	R	M<Ohm>		
Frei 2 impedance	40154	Float	2	R	M<Ohm>		
Phd impedance	40156	Float	2	R	M<Ohm>		
REF2 impedance	40158	Float	2	R	M<Ohm>		
	40180	Time2	2	R/W			
	40182	Integer	1	R/W	mV		

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