Modbus Register
NH6000 sc

V 1.07

HACH®

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NH6000 sc V 1.07

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
NH4N Ch1	40003	Float	2	R	MEAS UNITS	NH4-N	
NH4 Ch1	40005	Float	2	R	MEAS UNITS	NH4	
NH4N Ch2	40007	Float	2	R	MEAS UNITS	NH4-N	
NH4 Ch2	40009	Float	2	R	MEAS UNITS	NH4	
FLOW CHANNEL 1	40011	Float	2	R	mL /h	FLOW	
FLOW CHANNEL 2	40013	Float	2	R	mL /h	FLOW	
Remote Control	40025	Unsigned Integer	1	R/W			
Ammonium Ch1	40028	Float	2	R	MEAS UNITS		
Electrode Voltage	40030	Float	2	R	mV		
Script Version	40039	Unsigned Integer	1	R			
Driver Version	40040	String	6	R			
Application	40046	Float	2	R			
Version Valve Unit	40050	String	6	R			
Version Sample Unit	40056	String	6	R			
Version Piston Pump Unit	40062	String	6	R			
Version Senosr Unit	40068	String	6	R			
Version Housing Unit	40074	String	6	R			
Version AC Unit	40080	String	6	R			
Version Dosing Unit	40086	String	6	R			
HW index Control Unit	40092	Unsigned Integer	1	R			
HW index Valve Unit	40093	Integer	1	R			
HW index Sample Unit	40094	Integer	1	R			
HW index Piston Pump Unit	40095	Integer	1	R			
HW index Sensor Unit	40096	Integer	1	R			
HW index Housing Unit	40097	Integer	1	R			
HW index AC Unit	40098	Integer	1	R			
HW index Dosing Unit	40099	Integer	1	R			
Serial Number	40100	String	6	R			
Factor Ch1	40117	Float	2	R/W			
Factor Ch2	40119	Float	2	R/W			
Offset Ch1	40121	Float	2	R/W	MEAS UNITS		
Offset Ch2	40123	Float	2	R/W	MEAS UNITS		
Location Ch1	40129	String	8	R/W			
Location Ch2	40137	String	8	R/W			
Number of measurements Ch1	40145	Unsigned Integer	1	R/W			
Number of measurements Ch2	40146	Unsigned Integer	1	R/W			
Discard measurements Ch1	40147	Unsigned Integer	1	R/W			
Discard measurements Ch2	40148	Unsigned Integer	1	R/W			
Calibration Interval	40151	Unsigned Integer	1	R/W			0/1/2/3/4
Cleaning Interval	40152	Unsigned Integer	1	R/W			0/1/2/3/4

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Cleaning start time	40153	Unsigned Integer	1	R/W			
Calibration start time	40154	Unsigned Integer	1	R/W			
6-Month maintenance	40160	Integer	1	R	days		
Range reagent solution	40161	Integer	1	R	days		
Range cleaning solution	40162	Integer	1	R	days		
Range standard solution	40163	Integer	1	R	days		
Range air filter pads	40164	Integer	1	R	days		
Range membrane and electrolyte	40165	Integer	1	R	days		
Range electrode	40166	Integer	1	R	days		
Range piston pump head	40167	Integer	1	R	days		
Range reagent pump	40168	Integer	1	R	days		
Filter module status	40169	Unsigned Integer	1	R	%		
Range Cleaning filter module	40170	Integer	1	R	days		
Range new filtration module	40171	Integer	1	R	days		
Range pump tubings	40172	Integer	1	R	days		
Range pump head	40173	Integer	1	R	days		
Range compressor	40174	Integer	1	R	days		
Operation time	40175	Unsigned Integer	1	R	days		
Housing temperature	40224	Float	2	R	C		
Chamber temperature	40227	Float	2	R	C		
Measurement chamber heater power	40229	Float	2	R	%		
Measured standard 1	40238	Float	2	R	mV		
Measured standard 2	40240	Float	2	R	mV		
Calibration Result	40257	Unsigned Integer	1	R			0/1/2
Last calibration date	40258	Time2	2	R			
Slope	40278	Float	2	R			
Offset	40280	Float	2	R			
	40395	Float	2	R			
	40398	Unsigned Integer	1	R			0/1/2/3/4

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