Modbus Register
FP360 sc

V1.15

HACH®

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
PAH-PPB	40002	Float	2	R		0 /9999	measurement value as PAH, unit PPB
PAH-PPM	40004	Float	2	R		0 /9999	measurement value as PAH, unit PPM
OIL-PPB	40006	Float	2	R		0 /9999	measurement value as OIL, unit PPB
OIL-PPM	40008	Float	2	R		0 /9999	measurement value as OIL, unit PPM
SelectedMeasure	40012	Unsigned Integer	1	R			
SERIAL NUMBER	40016	String	6	R/W			serial number
EDIT NAME	40022	String	8	R/W			name of location
SET PARAMETER	40030	Unsigned Integer	1	R/W	48 /47		choose the parameter, 47=PAH, 48=OIL
MEAS UNITS	40031	Unsigned Integer	1	R/W	U38 /39 /2 /0		measurement units 38=ppb, 39=µg/l, 2=ppm, 0=mg/l
OFFSET	40040	Float	2	R/W		-1000.0 /1000.0	offset for calibration
FACTOR	40042	Float	2	R/W		0.1 /100.0	factor for calibration
LOG SETUP	40050	Unsigned Integer	1	R/W	5 /30 /60 /120 /180 /240 /300 /360 /600 /900 /1800		logging interval from 5 sec to 1800 sec
AVERAGE	40051	Unsigned Integer	1	R/W		1 /300	measuring interval from 1sec to 300sec
GAIN VALUE	40052	Unsigned Integer	1	R/W	0 /1 /2		amplification for the low/high range probe, 0=AUTO, 1= 0.01...50PPB/500PPB, 2= 0.01 ... 500PPB/5000PPB
SET OUTMODE CAL	40055	Unsigned Integer	1	R/W	0 /1 /2		set output mode for calibration
SET OUTMODE SER	40056	Unsigned Integer	1	R/W	0 /1 /2		set output mode for service
PROGRAM	40057	Float	2	R		0 /3.40282347 E+38	version of application file
BOOTPROG.	40059	Float	2	R		0 /3.40282347 E+38	the entry is for the application file
PROBE	40061	Float	2	R		0 /3.40282347 E+38	version of the probe
STRUCTURE	40063	Unsigned Integer	1	R		0 /255	the entry is for the device driver file
FIRMWARE	40064	Unsigned Integer	1	R		0 /255	the entry is for the device driver file
CONTENT	40065	Unsigned Integer	1	R		0 /255	the entry is for the device driver file
LAMP CHANGE	40066	Integer	1	R		-1460 /1460	days left until exchanging lamp, negative values show that exchange is overdue
MAINTENANCE	40067	Integer	1	R		-730 /730	days left until maintenance, negative values show that exchange is overdue
OPERATING HOURS	40068	Unsigned Integer	2	R/W		0 /999999	operating hours of analyzer

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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