Modbus Register
PAH500 sc

V1.02

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
PAH	40001	Float	2	R		0 /9999	
MV RAW	40003	Float	2	R		-2500 /5500	
SensorName6	40005	String	6	R/W			
SoftwareVersion	40013	Float	2	R		0 /999.99	
SerialNumber	40015	String	6	R			
SensorLogInterval	40021	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12 /13		
RAW INTERVAL	40022	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12 /13		
ProdDate	40023	Time2	2	R/W			
DeviceDriver	40025	Unsigned Integer	1	R		0 /65535	
SensorADCCnts	40026	Integer	2	R		0 /16777215	
BootVersion	40028	Float	2	R		0 /10	
MEAS UNITS	40030	Unsigned Integer	1	R/W	U38 /39 /2 /0		
MV SIGNAL	40031	Float	2	R		-2500 /5500	
FILTER	40033	Unsigned Integer	1	R/W		0 /60	
SLOPE	40034	Float	2	R/W		0.01 /9.99	
OFFSET	40036	Float	2	R/W		-9999 /9999	
REJECT FREQ	40038	Unsigned Integer	1	R/W	0 /1		
FACTORY CAL POINT	40039	Unsigned Integer	1	R/W	0 /1 /255		
FACTORY CAL MV	40040	Float	2	R/W		-5000 /5500	
FACTORY CAL CONC	40042	Float	2	R/W		0 /5000	
SIGNAL AVERAGE	40044	Unsigned Integer	1	R/W		1 /16	
BOARD TEMP	40045	Float	2	R		-50 /100	
LED OPERATION	40047	Integer	2	R		0 /9999999	
POWER CHECK	40049	Unsigned Integer	1	R		0 /2000	
OutputMode	40050	Unsigned Integer	1	R/W	0 /1 /2		
CalLeave	40051	Unsigned Integer	1	R/W	0 /1 /2		
CalEditValue	40052	Float	2	R/W		0 /9999	
CalAbort	40054	Unsigned Integer	1	R/W	0 /1		
CAL DAYS	40055	Unsigned Integer	1	R		0 /999	
CLEAN DAYS	40056	Unsigned Integer	1	R		0 /999	
CAL WARNING DAYS	40057	Unsigned Integer	1	R/W		0 /999	
CLEAN WARNING DAYS	40058	Unsigned Integer	1	R/W		0 /999	
BOARD CAL POINT	40059	Unsigned Integer	1	R/W	0 /1 /255		
BOARD CAL MV	40060	Float	2	R/W		-5000 /5500	
BOARD CAL ADCCnts	40062	Integer	2	R/W		0 /16777215	

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
SENSOR TYPE	40064	Unsigned Integer	1	R	0 /1		
LAST CAL DATE	40065	Time2	2	R			
Measure State	40067	Unsigned Integer	1	R	0 /1 /2 /3 /4 /5 /6 /7		
WARNING LEVEL	40068	Float	2	R/W		0 /9999	
SENSOR SN	40070	String	6	R/W			
SCALE FACTOR	40076	Float	2	R/W		0.01 /9.99	The scale factor
CalPAHReading	40078	Float	2	R		-999 /9999	

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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