

Modbus Register Phosphax sc LR 0,015-2 mgl

V1.03

Phosphax sc LR 0,015-2 mg/l V1.03

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
PHOSPHATE PO4-P	40001	Float	2	R/W			
PHOSPHATE PO4	40003	Float	2	R/W			
PHOSPHATE P2O5	40005	Float	2	R/W			
EDITED NAME	40027	String	8	R/W			location of sensor
SET PARAMETER	40053	Unsigned Integer	1	R/W	P15 /14 /16		
SET PARAMETER channel2	40054	Unsigned Integer	1	R/W	P15 /14 /16		
MEAS INT.	40055	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5		
CLEANING INTERVAL	40056	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6		
CLEAN STARTZEIT	40057	Time2	2	R/W			
SET OUTMODE CLEANING	40059	Unsigned Integer	1	R/W	0 /1 /2		
DAIN HEATING FROM	40060	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12		
DAIN HEATING UNTIL	40061	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12		
REMINDER	40062	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5		
WARNING MEASUREMENT LOW	40063	Unsigned Integer	1	R/W	0 /1	0 /1	
WARNING MEASUREMENT HIGH	40064	Unsigned Integer	1	R/W	0 /1	0 /1	
INTERVAL	40065	Unsigned Integer	1	R/W	0 /1 /2 /3 /4		
FACTOR	40066	Float	2	R/W		0.5 /2.0	
FACTOR Channel2	40068	Float	2	R/W		0.5 /2.0	
OFFSET	40070	Float	2	R/W		-0.2 /0.2	
OFFSET Channel2	40072	Float	2	R/W		-0.2 /0.2	
KAL SET INTERVAL	40074	Unsigned Integer	1	R/W	0 /1 /2 /3 /4		
KAL STARTZEIT	40075	Time2	2	R/W			
SET OUTMODE CALIBRATION	40077	Unsigned Integer	1	R/W	0 /1 /2		
DATE OF LAST CALIBRATION	40089	Time2	2	R/W			
Extinktion 0	40091	Float	2	R		0 /1000	
Extinktion 1	40093	Float	2	R		0 /1000	
LED temperature meas	40095	Float	2	R		0 /1000	
ENCLOSURE TEMP	40097	Float	2	R		0 /1000	
CUV.TEMP.	40099	Float	2	R		0 /1000	
EXTINCTION	40101	Float	2	R			
HUMIDITY ANALY	40103	Float	2	R			
DRAIN HEATING	40105	Unsigned Integer	1	R	1 /0		
HEATING	40106	Unsigned Integer	1	R	1 /0		

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
FAN	40107	Unsigned Integer	1	R	1 /0		
AIR PRESS	40108	Float	2	R		0 /2	
ACTUAL PROCESS	40118	Unsigned Integer	1	R	0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12 /13 /14 /15 /16 /17 /18 /19 /20 /21 /22 /23		
SELECT PROCESS	40119	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12 /13 /14 /15		
PROCESS REMAINING TIME	40120	Unsigned Integer	1	R		0 /65535	
TOTAL TIME	40121	Unsigned Integer	1	R		0 /65535	
REAGENT A	40122	Unsigned Integer	1	R		0 /999	
REAGENT B	40123	Unsigned Integer	1	R		0 /999	
CLEANING SOLUTION	40124	Unsigned Integer	1	R		0 /999	
STANDARD SOLUTION	40125	Unsigned Integer	1	R		0 /999	
AIR FILTER PADS	40126	Integer	1	R		-999 /999	
PISTON PUMP	40127	Integer	1	R		-999 /999	
SET OUTMODE SERVICE	40134	Unsigned Integer	1	R/W	0 /1 /2		
SERIAL NUMBER	40135	String	6	R/W			
SENSOR TYPE	40141	Unsigned Integer	1	R	0		
SENSOR RANGE	40142	Unsigned Integer	1	R	0		
SENSOR NAME	40143	Unsigned Integer	1	R	0		
PROGRAM	40144	Float	2	R		0 /3.40282347 E+38	
BOOTPROG.	40146	Float	2	R		0 /3.40282347 E+38	
DRIVER	40148	String	4	R			
SCRIPT	40152	Integer	1	R		-32768 /32767	
MEAS. VERSION	40153	Unsigned Integer	1	R		0 /65535	
MODEL NUMBER	40163	Unsigned Integer	1	R	0		
FACTORY PROCESS SELECT	40164	Unsigned Integer	1	R/W	0 /1 /2 /3 /4 /5 /6 /7 /8 /9		
RESULT_FUNC_TEST	40165	Unsigned Integer	1	R	0 /1 /2 /3 /4 /6 /7		
	40165	Unsigned Integer	1	R	0 /1 /2 /3 /4 /6 /7		
PRESSURE 1	40166	Float	2	R/W			
PRESSURE 2	40166	Float	2	R/W			

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
PRESSURE 3	40166	Float	2	R/W			
VOLUME	40166	Float	2	R/W			
GAIN	40166	Float	2	R/W			
ERROR	40168	Unsigned Integer	1	R/W		0 /65535	
ERROR_32	40169	Unsigned Integer	2	R/W		0 /4294967295	



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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