Modbus Register
sc4500 Profibus DP

V 3.00

HACH®

Be Right™

sc4500 Profibus DP V 3.00

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40001	String	8	R/W			
	40009	Unsigned Integer	1	R/W			
	40010	Unsigned Integer	2	R/W			
	40012	Unsigned Integer	1	R/W			0/1
	40013	Float	2	R			
	40015	Unsigned Integer	1	R/W			
	40016	Unsigned Integer	1	R/W			
	40017	Unsigned Integer	1	R/W			
	40018	Float	2	R/W			
	40020	Float	2	R/W			
	40022	Unsigned Integer	1	R/W			
	40023	Unsigned Integer	1	R/W			
	40024	Unsigned Integer	1	R/W	min		
	40025	Unsigned Integer	1	R/W			0/1
	40026	Unsigned Integer	1	R/W			0/1
	40027	Unsigned Integer	1	R/W			0/1
	40028	Unsigned Integer	1	R/W			0/1
	40029	Unsigned Integer	1	R			1/2/4/8/16
	40030	Unsigned Integer	1	R			
	40031	Float	2	R/W			
	40033	Float	2	R/W			
	40035	Float	2	R/W			
	40037	Float	2	R/W			
	40039	Float	2	R/W			
	40041	Float	2	R/W			
	40043	Float	2	R/W			
	40045	Float	2	R/W			
	40047	String	3	R/W			
	40050	String	3	R/W			
	40053	String	3	R/W			
	40056	String	3	R/W			
	40059	String	3	R/W			
	40062	String	3	R/W			
	40065	String	3	R/W			
	40068	String	3	R/W			
	40071	String	3	R/W			
	40074	String	3	R/W			
	40077	String	3	R/W			
	40080	String	3	R/W			

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40083	String	3	R/W			
	40086	String	3	R/W			
	40089	String	3	R/W			
	40092	String	3	R/W			
	40095	Unsigned Integer	1	R/W			0/2/5/10/15/30
	40096	Unsigned Integer	1	R			
	40097	Unsigned Integer	1	R			
	40098	Unsigned Integer	1	R			
	40099	Unsigned Integer	1	R/W			
	40100	Unsigned Integer	1	R/W			0/1/2
	40101	Unsigned Integer	1	R			

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