Modbus Register
sc4500 mA Input

V 2.16

HACH®

Be Right™

sc4500 mA Input V 2.16

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40001	Float	2	R			
	40003	Float	2	R			
	40005	Float	2	R			
	40007	Float	2	R			
	40011	Unsigned Integer	1	R			0/1
	40012	Unsigned Integer	1	R			0/1
	40013	Unsigned Integer	1	R			0/1
	40014	Unsigned Integer	1	R			0/1
	40015	String	8	R/W			
	40023	String	8	R/W			
	40031	String	8	R/W			
	40039	String	8	R/W			
	40047	String	8	R/W			
	40055	String	8	R/W			
	40063	String	8	R/W			
	40071	String	8	R/W			
	40079	String	8	R/W			
	40087	String	8	R/W			
	40095	String	8	R/W			
	40103	String	8	R/W			
	40111	Unsigned Integer	1	R/W			
	40112	Unsigned Integer	1	R/W			
	40113	Unsigned Integer	1	R/W			
	40114	Unsigned Integer	1	R/W			
	40115	Unsigned Integer	1	R/W			
	40116	Unsigned Integer	1	R/W			
	40117	Unsigned Integer	1	R/W			
	40118	Unsigned Integer	1	R/W			
	40119	Unsigned Integer	1	R/W	s		

sc4500 mA Input V 2.16

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40120	Unsigned Integer	1	R/W	s		
	40121	Unsigned Integer	1	R/W	s		
	40122	Unsigned Integer	1	R/W	s		
	40123	Unsigned Integer	1	R/W			0/1
	40124	Unsigned Integer	1	R/W			0/1
	40125	Unsigned Integer	1	R/W			0/1
	40126	Unsigned Integer	1	R/W			0/1
	40127	Unsigned Integer	1	R/W			0/1
	40128	Unsigned Integer	1	R/W			0/1
	40129	Unsigned Integer	1	R/W			0/1
	40130	Unsigned Integer	1	R/W			0/1
	40131	Unsigned Integer	1	R/W			0/1
	40132	Unsigned Integer	1	R/W			0/1
	40133	Unsigned Integer	1	R/W			0/1
	40134	Unsigned Integer	1	R/W			0/1
	40135	Float	2	R/W			
	40137	Float	2	R/W			
	40139	Float	2	R/W			
	40141	Float	2	R/W			
	40143	Float	2	R/W			
	40145	Float	2	R/W			
	40147	Float	2	R/W			
	40149	Float	2	R/W			
	40151	Unsigned Integer	1	R/W			0/4/20/100
	40152	Unsigned Integer	1	R/W			0/4/20/100
	40153	Unsigned Integer	1	R/W			0/4/20/100
	40154	Unsigned Integer	1	R/W			0/4/20/100
	40155	Unsigned Integer	1	R/W			
	40156	Float	2	R			
	40158	Unsigned Integer	1	R/W			
	40159	Unsigned Integer	1	R/W			
	40160	String	8	R/W			
	40168	Unsigned Integer	1	R/W			0/5/10/15/20/30

HACH®
Be Right™

sc4500 mA Input V 2.16

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40169	Unsigned Integer	1	R/W			0/5/10/15/20/30
	40170	Unsigned Integer	1	R/W			0/5/10/15/20/30
	40171	Unsigned Integer	1	R/W			0/5/10/15/20/30
	40172	Unsigned Integer	1	R/W			0/1/2
	40173	Unsigned Integer	1	R/W			0/1
	40174	Unsigned Integer	1	R/W			0/1
	40175	Unsigned Integer	1	R/W			0/1
	40176	Unsigned Integer	1	R/W			0/1
	40177	Unsigned Integer	1	R			
	40178	Unsigned Integer	1	R			
	40179	Unsigned Integer	1	R			
	40180	Unsigned Integer	1	R			
	40181	Float	2	R	mA		
	40183	Float	2	R	mA		
	40185	Float	2	R	mA		
	40187	Float	2	R	mA		
	40189	Unsigned Integer	1	R/W			0/1
	40190	Float	2	R/W	mA		
	40192	Float	2	R/W	mA		
	40194	Float	2	R/W	mA		
	40196	Float	2	R/W	mA		
	40198	Float	2	R/W			
	40200	Float	2	R/W			
	40202	Float	2	R/W			
	40204	Float	2	R/W			
	40206	String	3	R/W			
	40209	String	3	R/W			
	40212	String	3	R/W			
	40215	String	3	R/W			
	40218	String	3	R/W			
	40221	String	3	R/W			
	40224	String	3	R/W			
	40227	String	3	R/W			
	40230	Unsigned Integer	1	R/W			
	40231	Float	2	R/W			
	40233	Float	2	R/W			
	40235	Float	2	R/W			
	40237	Float	2	R/W			
	40239	Float	2	R/W			

sc4500 mA Input V 2.16

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40241	Float	2	R/W			
	40243	Float	2	R/W			
	40245	Float	2	R/W			

HACH®
Be Right™

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