Modbus Register
TSS sc

V41.74

HACH®

Be Right™

TSS sc V41.74

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
TURBIDITY FNU	40001	Float	2	R		?	turbidity in FNU
TURBIDITY NTU	40001	Float	2	R		?	turbidity in NTU
TURBIDITY TEF	40001	Float	2	R		?	turbidity in TEF
TURBIDITY FTU	40001	Float	2	R		?	turbidity in FTU
TURBIDITY EBC	40003	Float	2	R		?	turbidity in EBC
SOLID mg/l	40005	Float	2	R		?	solid in mg/L
SOLID ppm	40005	Float	2	R		?	solid in ppm
SOLID g/l	40007	Float	2	R		?	solid in g/L
SOLID %	40009	Float	2	R		?	solid in Prozent
Reserved1	40011	Unsigned Integer	1	R			reserved
SET PARAMETER	40012	Unsigned Integer	1	R/W	P0 /1		patameter
UnitTM	40013	Unsigned Integer	1	R/W	U6 /9 /8 /7 /42		unit turbidity
UnitDS	40014	Unsigned Integer	1	R/W	U0 /1 /2 /10		unit solid
OFFSET	40015	Float	2	R/W		-100 /100	turbidity offset
FACTOR TRB	40017	Float	2	R/W		0.1 /10.0	turbidity factor
FACTOR TS	40019	Float	2	R/W		0.1 /10.0	solid factor
Reserved2	40021	Unsigned Integer	1	R			reserviert
RESPONSE TIME	40022	Unsigned Integer	1	R/W		1 /300	response time
CLEAN. INTERVAL	40023	Unsigned Integer	1	R/W	15 /30 /60 /240 /720 /1440 /4320 /10080		cleaning interval
LOGGER INTERVAL	40024	Unsigned Integer	1	R/W	10 /30 /60 /120 /180 /240 /300 /360 /600 /900 /1800		logger interval
Outputmodekal	40025	Unsigned Integer	1	R/W	0 /1 /2 /3		output mode while maintenance
Outputmodesrv	40026	Unsigned Integer	1	R/W	0 /1 /2 /3		output mode while calibration
EDITED NAME	40027	String	8	R/W			location of sensor
PROFILE COUNTER	40035	Unsigned Integer	1	R/W		0 /40000	wiper profile counter
SERIAL NUMBER	40036	String	6	R/W			serial number
CAL. DATE	40042	Time2	2	R			date of factory calibration
TURBIDITY	40044	Float	2	R		0 /9999.9	Sensor Messwert Trübung
SOLID	40046	Float	2	R		0 /9999.9	Sensor Messwert solid
PROGRAM	40048	Float	2	R		0 /3.40282347 E+38	version application
BOOTPROG.	40050	Float	2	R		0 /3.40282347 E+38	version bootloader
STRUCTURE	40052	Unsigned Integer	1	R		0 /255	version structue
FIRMWARE	40053	Unsigned Integer	1	R		0 /255	version content
CONTENT	40054	Unsigned Integer	1	R		0 /255	verion firmware
FormatMinFNU	40055	Float	2	R			measurment low limit turbidity FNU

HACH®
Be Right™

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
FormatMaxFNU	40057	Float	2	R			measurment high limit turbidity FNU
FormatMinEBC	40059	Float	2	R			measurment low limit turbidity EBC
FormatMaxEBC	40061	Float	2	R			measurment high limit turbidity EBC
FormatMinGL	40063	Float	2	R			measurment low limit solid g/l
FormatMaxGL	40065	Float	2	R			measurment high limit solid g/l
FormatMinMGL	40067	Float	2	R			measurment low limit solid mg/l
FormatMaxMGL	40069	Float	2	R			measurment high limit solid mg/l
FormatMinPR	40071	Float	2	R			measurment low limit solid %
FormatMaxPR	40073	Float	2	R			measurment high limit solid %
S5E1	40075	Float	2	R		0 /1024	Signal LED S5E1
S5E3	40077	Float	2	R		0 /1024	Signal LED S5E3
S6E1	40079	Float	2	R		0 /1024	Signal LED S6E1
S6E3	40081	Float	2	R		0 /1024	Signal LED S6E3
S5E2	40083	Float	2	R		0 /1024	Signal LED S5E2
S5E4	40085	Float	2	R		0 /1024	Signal LED S5E4
S6E2	40087	Float	2	R		0 /1024	Signal LED S6E2
S6E4	40089	Float	2	R		0 /1024	Signal LED S6E4
POINT 1	40091	Float	2	R/W		0.0 /9999.99	calibration point 1 solid
Punkt1 DS	40091	Float	2	R/W		0.0 /9999.99	calibration point 1 turbidity
Punkt2 DS	40093	Float	2	R/W		0.0 /9999.99	calibration point 2 turbidity
POINT 2	40093	Float	2	R/W		0.0 /9999.99	calibration point 2 solid
POINT 3	40095	Float	2	R/W		0.0 /9999.99	calibration point 3 solid
Punkt3 DS	40095	Float	2	R/W		0.0 /9999.99	calibration point 3 turbidity

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