Modbus Register
Solitax sc

V 2.29

HACH®

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Solitax sc V 2.29

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
TurbidityFNU	40001	float	2	r			Turbidity FNU
TurbidityNTU	40001	float	2	r			Turbidity NTU
TurbidityTEF	40001	float	2	r			Turbidity TEF
TurbidityFTU	40001	float	2	r			Turbidity FTU
TurbidityEBC	40003	float	2	r			Turbidity EBC
SolidsMGL	40005	float	2	r			Solids mg/l
SolidsPPM	40005	float	2	r			Solids ppm
SolidsGL	40007	float	2	r			Solids g/l
SolidsPR	40009	float	2	r			Solids %
reserved	40011	unsigned integer	1	r			reserved
Parameter	40012	unsigned integer	1	r/w	P0 /1		parameter
UnitTRB	40013	unsigned integer	1	r/w	U6 /9 /8 /7 /42		Unit Turbidity
UnitTS	40014	unsigned integer	1	r/w	U0 /1 /2 /10		Unitd Solids
OffsetTRB	40015	float	2	r/w		-100 /100	Turbidity Offset
FactorTRB	40017	float	2	r/w		0.1 /10.0	Turbidity factor
FactorTS	40019	float	2	r/w		0.1 /10.0	Solids factor
wiperstate	40021	unsigned integer	1	r/w		1 /65535	wiper register
ResponseInterval	40022	unsigned integer	1	r/w		1 /300	response time
CleaningInterval	40023	unsigned integer	1	r/w	1 /5 /15 /30 /60 /240 /720 /1440 /4320 /10080 /65535		wiper interval
LogInterval	40024	unsigned integer	1	r/w	5 /30 /60 /120 /180 /240 /300 /360 /600 /900 /1800		Logger interval
Outputmodekal	40025	unsigned integer	1	r/w	0 /1 /2 /3		Output when calibrate
Outputmodesrv	40026	unsigned integer	1	r/w	0 /1 /2 /3		Output when service
Location	40027	string	8	r/w			Edited name
ProfilCounter	40035	unsigned integer	1	r/w		0 /40000	Profi counter
SerialNumber	40036	string	6	r			serial no
DateManuCal	40042	date	2	r			date of manufacturing calibration
DateUserCalTURB	40044	date	2	r			date of calibration turbidity
DateUserCalSOLID	40046	date	2	r			date of calibration solids
VersionAppl	40048	float	2	r		0 /3.40282347 E+38	Version application
VersionBoot	40050	float	2	r		0 /3.40282347 E+38	Version bootlader
VersionStruct	40052	unsigned integer	1	r		0 /255	Version structure probedriver
VersionContent	40053	unsigned integer	1	r		0 /255	Version register probedriver
VersionFirmware	40054	unsigned integer	1	r		0 /255	Version firmware probedriver
FormatMinFNU	40055	float	2	r			minimum turbidity FNU

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
FormatMaxFNU	40057	float	2	r			maximum turbidity FNU
FormatMinEBC	40059	float	2	r			minimum turbidity EBC
FormatMaxEBC	40061	float	2	r			maximum turbidity EBC
FormatMinGL	40063	float	2	r			minimum solids g/l
FormatMaxGL	40065	float	2	r			maximum solids g/l
FormatMinMGL	40067	float	2	r			minimum solids mg/l
FormatMaxMGL	40069	float	2	r			maximum solids mg/l
FormatMinPR	40071	float	2	r			minimum solids %
FormatMaxPR	40073	float	2	r			maximum solids %
SignalsLED	40075	unsigned integer	1	r		0 /1023	Signal Led
SignalsMoist	40076	unsigned integer	1	r		0 /1023	Signal moist
TRBProcessValue	40141	float	2	r		50.0 /50.0	Turbidity measurement process value
TRBMaximumNTU	40143	float	2	r		4000.0 /4000.0	max. Turbidity NTU

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