

Modbus Register 34xx sc contacting conductivity external gateway

V1

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Conductivity	40001	Unsigned Integer	1	R/W			Sensor Meas Tag Index
Temperature	40002	Unsigned Integer	1	R/W			Temperature Tag Index
Conductivity	40003	Float	2	R			Sensor Measurement
Temperature	40005	Float	2	R			Temperature Measurement
MeasMin	40007	Float	2	R			Minimum Meas. Value
MeasMax	40009	Float	2	R			Maximum Meas. Value
MeasFormat	40011	Unsigned Integer	2	R			Display Format
MeasUnitsCond	40013	Unsigned Integer	1	R/W			Siemens Units
MeasUnitsResist	40014	Unsigned Integer	1	R/W			Ohm Units
MeasUnitsTDS	40015	Unsigned Integer	1	R/W			TDS Units
MeasUnitsSalinity	40016	Unsigned Integer	1	R/W			Salinity Units
TempUnits	40017	Unsigned Integer	1	R/W			Degress C/F = 0/1
Select Measure	40018	Unsigned Integer	1	R/W			Conductivity/Resistivity/TDS/Salinity = 0/1/2/3
DisplayFormat	40019	Unsigned Integer	1	R/W			User Selected Display Format
Filter	40020	Unsigned Integer	1	R/W			Number of samples to Average
TDSConfig	40021	Unsigned Integer	1	R/W			TDS Configuration
TDS Factor	40022	Float	2	R/W			TDS Multiplier
Cell Constant	40024	Float	2	R/W			Cell Constant Value
Cell Constant Min	40026	Float	2	R/W			Minimum Cell Constant Value
Cell Constant Max	40028	Float	2	R/W			Maximum Cell Constant Value
CellConstSel	40030	Unsigned Integer	1	R/W			Cell Constant Selection, 0.01, 0.05, 0.1, 0.5, 1.0, 5.0, 10.0
TCompSelType1	40031	Unsigned Integer	1	R/W			Temp. Comp. Menu 1
TCompSelType2	40032	Unsigned Integer	1	R/W			Temp. Comp. Menu 2
TCompSlope	40033	Float	2	R/W			Temp. Comp. Slope
TCompRefTemp	40035	Float	2	R/W			Temp. Comp. Ref. Temp
TElementType	40041	Unsigned Integer	1	R/W			Temp. Element - Manual, Pt100, Pt1000 = 0/1/2
TElementFactor	40042	Float	2	R/W			Temp. Element Offset
TElementManual	40048	Float	2	R/W			Temp. Manual Temperature
OutPutMode	40050	Unsigned Integer	1	R/W			Output Mode During Calibration - Active/Hold/Transfer = 0/1/2
Cal Value	40052	Float	2	R			Calib. Value
Sensor Name	40054	String	6	R/W			Name of Sensor
Driver Version	40060	String	8	R/W			Version of Driver
Serial Number	40068	String	6	R/W			Sensor Serial Number
Function Code	40074	Unsigned Integer	1	R/W			Function Code tag
Next State	40075	Unsigned Integer	1	R/W			Next State Tag
FactoryCalValue	40076	Float	2	R/W			Factory Diagnostic

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FactoryCalCmd	40078	Unsigned Integer	1	R/W			Factory Diagnostic
Sensor Log Interval	40079	Unsigned Integer	1	R/W			Log Interval 0..13=Off/5,10,15,30,60 sec , 5,10,15,30,60 min, 1,2,6,12 hours
Tempr Log Interval	40080	Unsigned Integer	1	R/W			Log Interval 0..13=Off/5,10,15,30,60 sec , 5,10,15,30,60 min, 1,2,6,12 hours
Temp Counts	40081	Float	2	R			A/D Counts for Temperature
Cond Counts	40083	Float	2	R			A/D Counts for Sensor
Tohms	40085	Float	2	R			Calculated ohms of Temp. Sensor
AutoRange	40087	Unsigned Integer	1	R/W			Autorange if set to 0
Range	40088	Unsigned Integer	1	R/W			Gain setting of Sensor - 0/1/2
Zero Counts 0	40089	Float	2	R			A/D Counts for Gain Level 0
Zero Counts 1	40091	Float	2	R			A/D Counts for Gain Level 1
Zero Counts 2	40093	Float	2	R			A/D Counts for Gain Level 2
Freq Reject	40146	Unsigned Integer	1	R/W			50/60 Hertz Rejection
Driver Version	40147	Unsigned Integer	6	R			Driver Version
Raw Temp	40153	Float	2	R/W			Actual Temperature
Edit Temp	40155	Float	2	R/W			Temperature Edit Value
Edit Temp Min	40157	Float	2	R/W			Temperature Edit Value Min. Allowed
Edit Temp Max	40159	Float	2	R/W			Temperature Edit Value Max. Allowed
Temp Correction	40161	Float	2	R/W			Temperature Correction

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