

# Modbus Register 3798-S sc ind. Conductivity

V1.12



*Be Right™*

3798-S sc ind. Conductivity V1.12

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
Measurement mS/cm	40001	Float	2	R			Conductivity in mS/cm
Measurement Ohm.cm	40003	Float	2	R			Resistivity Ohm.cm
Measurement temperature	40005	Float	2	R			Temperature
Measurement Scm	40007	Float	2	R			Conductivity in S/cm
Measurement uScm	40009	Float	2	R			Conductivity in uS/cm
Measurement S/m	40011	Float	2	R			Conductivity in S/m
Measurement mS/m	40013	Float	2	R			Conductivity in mS/m
Measurement KOhm.cm	40015	Float	2	R			Resistivity KOhm.cm
Measurement Ohm.m	40017	Float	2	R			Resistivity Ohm.m
Measurement Ohm.m (2)	40019	Float	2	R			Resistivity Ohm.m2
AutoRange S/cm	40021	Integer	1	R			Auto Ranging redirection
AutoRange S/m	40022	Integer	1	R			Auto Ranging redirection of Sm
AutoRange Ohm.cm	40023	Integer	1	R			Auto Ranging redirection of Ohm.cm
AutoRange Ohm.m	40024	Integer	1	R			Auto Ranging of Ohm.m
measurement raw temperature	40025	Float	2	R			Raw Temperature
Conductivity unit	40027	Integer	1	R			Conductivity unit
Temperature unit	40028	Bit	1	R/W			Temperature unit
Output Mode	40029	Integer	1	R/W			OutputMode
Sensormame[0]	40030	Integer	1	R/W			sensormame[0]
Sensormame[1]	40031	Integer	1	R/W			sensormame[1]
Sensormame[2]	40032	Integer	1	R/W			sensormame[2]
Sensormame[3]	40033	Integer	1	R/W			sensormame[3]
Sensormame[4]	40034	Integer	1	R/W			sensormame[4]
Sensormame[5]	40035	Integer	1	R/W			sensormame[5]
Software Version (float)	40036	Float	2	R/W			Software version
Driver Version (float)	40038	Float	2	R/W			Driver version
Mains Frequency 50Hz	40040	Bit	1	R/W			Main Frequency
Function code	40041	Integer	1	R/W			Function Code
Next state	40042	Integer	1	R/W			Next Step
Password	40043	Password	1	R/W			Password
Serial number[1]	40044	Integer	1	R/W			Serial number[0]
Serial number[2]	40045	Integer	1	R/W			Serial number[1]
Serial number[3]	40046	Integer	1	R/W			Serial number[2]
Conductivity parameter	40047	Bit	1	R/W			&CMD_kunit
Temperature unit	40048	Bit	1	R/W			&CMD_tunit
Offset correction	40049	Float	2	R/W			Resistivity Offset
Electrical Calibration Resistance	40051	Float	2	R/W			Resistivity Adjust vaue
Electrical Slope	40053	Float	2	R/W			Electrical slope
Process Slope	40055	Float	2	R/W			Process slope
Main Calibration Adjust Value	40057	Float	2	R/W			Cal Conductivity Adjust Value
Second. Calibration Adjust Value	40059	Float	2	R/W			Cal Temperature Adjust Value
Temporary Meas.[0]	40061	Float	2	R/W			Temporary Measurement[0]
Temporary Meas.[1]	40063	Float	2	R/W			Temporary Measurement[1]
Constant cell	40065	Float	2	R/W			Constant cell

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Temperature Compensation	40067	Bit	1	R/W			Temperature Compensation
Coefficient Compensation	40068	Float	2	R/W			Compensation Coefficient
Temperature Reference	40070	Float	2	R/W			Temperature Reference
Automatic Temperature	40072	Bit	1	R/W			Automatic Temperature
Manual Temperature	40073	Float	2	R/W			Manual Temperature
Temperature Offset	40075	Float	2	R/W			Temperature Offset
---	40077	Integer	1	R/W			&RS_tgMainMeas
---	40078	Integer	1	R/W			&RS_tgSecondMeas
---	40079	Integer	1	R/W			&RS_tgCalMainMeas
---	40080	Integer	1	R/W			&RS_tgCalSecondMeas
---	40081	Integer	1	R/W			&RS_tgCalMainAdjValue
---	40082	Integer	1	R/W			&RS_tgCalSecondAdjValue
---	40083	Integer	1	R/W			&RS_tgTemporary0
---	40084	Integer	1	R/W			&RS_tgTemporary1
---	40085	Integer	1	R/W			&RS_tgTempOffsetCorr
---	40086	Integer	1	R/W			&RS_tgTempRef
---	40087	Integer	1	R/W			&RS_tgTempManual
---	40088	Integer	1	R/W			Analogue Output Command
Serial Number String[0]	40089	Integer	1	R/W			&RS_sn_string[0]
Serial Number String[2]	40090	Integer	1	R/W			&RS_sn_string[2]
Serial Number String[4]	40091	Integer	1	R/W			&RS_sn_string[4]
Serial Number String[6]	40092	Integer	1	R/W			&RS_sn_string[6]
Serial Number String[8]	40093	Integer	1	R/W			&RS_sn_string[8]
Serial Number String[8]	40094	Integer	1	R/W			&RS_sn_string[10]
---	40095	Float	2	R/W			&MESS_OutputVoltage
Averaging	40097	Integer	1	R/W			Averaging
---	40098	Integer	1	R/W			&MESS_cal_code
Delay from last Calibration	40099	Integer	1	R			Delay from last Calibration
Time from Start up	40100	Integer	1	R			Time from Start up
Time of Humidity Bag	40101	Integer	1	R			Time of Humidity Bag
Conductivity Log Interval	40102	Integer	1	R			Conductivity Log Interval
Temperature Log Interval	40103	Integer	1	R			Temperature Log Interval

## 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



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