

Modbus Register AISE sc

V1.03



Be Right™

AISE sc V1.03

| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|----------------------------------|----------|------------------|--------|-------------|------------------------|--------------------|-------------|
| AMMONIUM NH4-N | 40001 | Float | 2 | R | | 0 /1500 | |
| AMMONIUM NH4 | 40003 | Float | 2 | R | | 0 /1932 | |
| Potassium | 40005 | Float | 2 | R | | 0 /1500 | |
| TEMPERATURE [C] | 40007 | Float | 2 | R | | 0 /60 | |
| TEMPERATURE [F] | 40009 | Float | 2 | R | | -54 /180 | |
| K+ compensation | 40013 | Unsigned Integer | 1 | R/W | 0 /1 | | |
| Logger Interval | 40014 | Unsigned Integer | 1 | R/W | 0 /1 /2 /3 /4 /5 /6 /7 | | |
| Response Interval | 40015 | Unsigned Integer | 1 | R/W | | 10 /1800 | |
| TEMP UNITS | 40016 | Unsigned Integer | 1 | R/W | U25 /26 | | |
| SET PARAMETER | 40017 | Unsigned Integer | 1 | R/W | 0 /1 | | |
| MEAS UNITS | 40018 | Unsigned Integer | 1 | R/W | U0 /2 | | |
| TEMP ADJUST [C] | 40019 | Float | 2 | R/W | | -1.5 /1.5 | |
| TEMP ADJUST [F] | 40021 | Float | 2 | R/W | | -2.7 /2.7 | |
| Location | 40024 | String | 8 | R/W | | | |
| SENSORCODE | 40033 | String | 8 | R/W | | | |
| CART. NO. | 40041 | Unsigned Integer | 2 | R | | 0 /9999999 | |
| SERIAL NUMBER | 40043 | String | 6 | R/W | | | |
| AC Code Version | 40049 | Float | 2 | R | | 0 /3.40282347 E+38 | |
| BC Code Version | 40051 | Float | 2 | R | | 0 /3.40282347 E+38 | |
| Structure DD | 40053 | Unsigned Integer | 1 | R | | 0 /255 | |
| Content DD | 40054 | Unsigned Integer | 1 | R | | 0 /255 | |
| Firmware DD | 40055 | Unsigned Integer | 1 | R | | 0 /255 | |
| Moist [%] | 40056 | Unsigned Integer | 1 | R | | 0 /100 | |
| K+ substitute value | 40058 | Float | 2 | R/W | | 0 /1500 | |
| Ammonium mV | 40060 | Float | 2 | R | | -2000 /2000 | |
| Ammonium Drift | 40062 | Float | 2 | R | | -2000 /2000 | |
| Ammonium Noise | 40064 | Float | 2 | R | | -2000 /2000 | |
| Potassium mV | 40066 | Float | 2 | R | | -2000 /2000 | |
| Potassium Drift | 40068 | Float | 2 | R | | -2000 /2000 | |
| Potassium Noise | 40070 | Float | 2 | R | | -2000 /2000 | |
| Reference mV | 40072 | Float | 2 | R | | -2000 /2000 | |
| Reference Drift | 40074 | Float | 2 | R | | -2000 /2000 | |
| Reference Noise | 40076 | Float | 2 | R | | -2000 /2000 | |
| Reference 2 [mV] | 40078 | Float | 2 | R | | -2000 /2000 | |
| Temperatur [mV] | 40084 | Float | 2 | R | | -2000 /2000 | |
| Date of point Matrix 1 Ammonium | 40091 | Time2 | 2 | R | | | |
| Ammonium point Matrix 1 | 40093 | Float | 2 | R/W | | 0 /1500 | |
| Date of point Matrix 1 Potassium | 40095 | Time2 | 2 | R | | | |

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|-----------------------------------|----------|-----------|--------|-------------|----------------|-------------|-------------|
| Potassium point Matrix 1 | 40097 | Float | 2 | R/W | | 0 /1500 | |
| Date of point 1 Matrix 2 Ammonium | 40099 | Time2 | 2 | R | | | |
| Ammonium point 1 Matrix 2 | 40101 | Float | 2 | R/W | | 0 /1500 | |
| Date of point 2 Matrix 2 Ammonium | 40103 | Time2 | 2 | R | | | |
| Ammonium point 2 Matrix 2 | 40105 | Float | 2 | R/W | | 0 /1500 | |
| Slope NH4-N | 40126 | Float | 2 | R | | | |
| Offset NH4-N | 40128 | Float | 2 | R | | | |
| Slope K+ | 40132 | Float | 2 | R | | | |
| Offset K+ | 40134 | Float | 2 | R | | | |
| NH4 impedance | 40146 | Float | 2 | R | | | |
| K+ impedance | 40148 | Float | 2 | R | | | |
| Phd impedance | 40150 | Float | 2 | R | | | |
| REF2 impedance | 40152 | Float | 2 | R | | | |
| GNDROD | 40174 | Integer | 1 | R/W | | -1000 /1000 | |

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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