

Modbus Register 918x sc V2

V 2.04



Be Right™

918x sc V2 V 2.04

| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|--|----------|------------------|--------|-------------|----------------|-----------|--------------|
| Main Measurement Parameter in mg/l | 40001 | Float | 2 | R | mg /l | | |
| pH Measurement Param. | 40003 | Float | 2 | R | pH | | |
| Temperature measurement | 40005 | Float | 2 | R | C | | |
| Current Measurement Parameter in μ A | 40007 | Float | 2 | R | μ A | | |
| Main Measurement Parameter in ppm | 40009 | Float | 2 | R | ppm | | |
| Main Measurement Parameter in ppb | 40011 | Float | 2 | R | ppb | | |
| Main Measurement Parameter in μ g/l | 40013 | Float | 2 | R | μ g /l | | |
| Current Measurement Parameter in nA | 40015 | Float | 2 | R | nA | | |
| Raw pH measurement | 40017 | Float | 2 | R | pH | | |
| mV Raw measurement | 40019 | Float | 2 | R | mV | | |
| Raw Temperature measurement | 40021 | Float | 2 | R | C | | |
| AutoRange Concentration in ppX | 40023 | Unsigned Integer | 1 | R | | | |
| AutoRange Concentration in Xg/l | 40024 | Unsigned Integer | 1 | R | | | |
| AutoRange Current | 40025 | Unsigned Integer | 1 | R | | | |
| Concentration Tag-based | 40026 | Unsigned Integer | 1 | R | | | |
| Temperature Tag-based | 40027 | Unsigned Integer | 1 | R | | | |
| Sensor Name | 40028 | String | 6 | R/W | | | |
| Function code | 40034 | Unsigned Integer | 1 | R/W | | | |
| Next Step | 40035 | Unsigned Integer | 1 | R | | | |
| Password | 40036 | Unsigned Integer | 1 | R/W | | | |
| Serial Number[0] | 40037 | Unsigned Integer | 1 | R/W | | | |
| Serial Number[1] | 40038 | Unsigned Integer | 1 | R/W | | | |
| Serial Number[2] | 40039 | Unsigned Integer | 1 | R/W | | | |
| Application toogle | 40040 | Unsigned Integer | 1 | R/W | | | 0/1/2/3/4 |
| Active Concentration unit | 40041 | Unsigned Integer | 1 | R/W | | | |
| Concentration unit toogle | 40042 | Unsigned Integer | 1 | R/W | | | 0/1/2/4/3/5 |
| Temperature unit toogle | 40043 | Unsigned Integer | 1 | R/W | | | 0/1 |
| Concentration Slope unit | 40044 | Unsigned Integer | 1 | R | | | U85/86/87/88 |
| Compensation pH toogle | 40045 | Unsigned Integer | 1 | R/W | | | 1/0 |
| pH display format toogle | 40046 | Unsigned Integer | 1 | R/W | | | 0/1 |

918x sc V2 V 2.04

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|-------------------------------------|----------|------------------|--------|-------------|---------------------------|-----------|--------------------------------|
| --- | 40047 | Unsigned Integer | 2 | R/W | | | |
| Averaging | 40049 | Unsigned Integer | 1 | R/W | s | | |
| Automatic/Manual temperature toggle | 40050 | Unsigned Integer | 1 | R/W | | | 1/0 |
| Manual Temperature unit | 40051 | Unsigned Integer | 1 | R/W | | | |
| Manual Temperature | 40052 | Float | 2 | R/W | C | | |
| Max pH | 40054 | Float | 2 | R/W | pH | | |
| Manual pH | 40056 | Float | 2 | R/W | pH | | |
| 50/60 Hz toggle | 40058 | Unsigned Integer | 1 | R/W | | | 0/1 |
| Output Mode | 40059 | Unsigned Integer | 1 | R/W | | | 0/1/2 |
| --- | 40060 | Unsigned Integer | 1 | R | | | |
| --- | 40061 | Unsigned Integer | 1 | R | | | |
| --- | 40062 | Unsigned Integer | 1 | R/W | | | |
| --- | 40063 | Unsigned Integer | 1 | R/W | | | |
| --- | 40064 | Unsigned Integer | 1 | R | | | |
| --- | 40065 | Unsigned Integer | 1 | R | | | |
| --- | 40066 | Unsigned Integer | 1 | R | | | |
| --- | 40067 | Float | 2 | R/W | C | | |
| --- | 40069 | Float | 2 | R | pH | | |
| --- | 40071 | Float | 2 | R | C | | |
| Temperature Offset | 40073 | Float | 2 | R/W | C | | |
| Temperature Offset unit | 40075 | Unsigned Integer | 1 | R/W | | | |
| pH Buffer 1 Measurement | 40076 | Float | 2 | R/W | pH | | |
| pH Buffer 2 Measurement | 40078 | Float | 2 | R/W | pH | | |
| Cal Conc Measurement | 40080 | Float | 2 | R/W | Active Concentration unit | | |
| Cal TFC Measurement | 40082 | Float | 2 | R/W | ppb | | |
| Output Mode | 40084 | Unsigned Integer | 1 | R/W | | | 0/1/2/3 |
| Software version | 40085 | Float | 2 | R | | | |
| Serial Number | 40087 | String | 6 | R | | | |
| pH Offset | 40093 | Float | 2 | R/W | pH | | |
| pH Slope | 40095 | Float | 2 | R/W | % | | |
| Concentration Offset | 40097 | Float | 2 | R | µA | | |
| Concentration Slope | 40099 | Float | 2 | R | Concentration Slope unit | | |
| Calibration Return Status | 40101 | Unsigned Integer | 1 | R/W | | | |
| Time between two calibrations | 40102 | Unsigned Integer | 1 | R/W | Day | | 0/1/7/30/60/90/180/270/365/730 |

918x sc V2 V 2.04

| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|------------------------------|----------|------------------|--------|-------------|----------------|-----------|-------------|
| Concentration zero toggle | 40103 | Unsigned Integer | 1 | R/W | | | 0/1 |
| Time from start up | 40104 | Unsigned Integer | 1 | R | Day | | |
| DriverVersion_float | 40105 | Float | 2 | R | | | |
| --- | 40107 | Float | 2 | R | pH | | |
| Measurement Logging Interval | 40109 | Unsigned Integer | 1 | R/W | | | |
| Temperature Logging Interval | 40110 | Unsigned Integer | 1 | R/W | | | |

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 |