

Modbus Register pHD sc

V 3.50



Be Right™

pHD sc V 3.50

| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|-------------------|----------|------------------|--------|-------------|----------------|-----------|---------------------------------|
| SensorMeasTag | 40001 | Unsigned Integer | 1 | R | | | |
| pH | 40002 | Float | 2 | R | pH | | |
| ORP | 40002 | Float | 2 | R | mV | | |
| TempMeasTag | 40004 | Unsigned Integer | 1 | R | | | |
| TEMP | 40005 | Float | 2 | R | C | | |
| TEMP | 40005 | Float | 2 | R | F | | |
| SensorName6 | 40007 | String | 6 | R/W | | | |
| FuncCode | 40013 | Unsigned Integer | 1 | R/W | | | |
| NextState | 40014 | Unsigned Integer | 1 | R | | | |
| MeasType | 40015 | Unsigned Integer | 1 | R/W | | | 0/1 |
| TempUnits | 40016 | Unsigned Integer | 1 | R/W | | | U25/26 |
| PhFormat | 40017 | Unsigned Integer | 1 | R/W | | | 0/1 |
| TaggedPhFormat | 40018 | Unsigned Integer | 2 | R/W | | | |
| Filter | 40020 | Unsigned Integer | 1 | R/W | s | | |
| TempElementType | 40021 | Unsigned Integer | 1 | R/W | | | 0/1/2/4 |
| TempUserValueTag | 40022 | Unsigned Integer | 1 | R/W | C | | |
| TempUserDegCValue | 40023 | Float | 2 | R/W | C | | |
| TempUserDegFValue | 40023 | Float | 2 | R/W | F | | |
| PhBuffer | 40025 | Unsigned Integer | 1 | R/W | | | 0/1 |
| PureWaterCompType | 40026 | Unsigned Integer | 1 | R/W | | | 0/1/2/3/4/5/6/7/8 |
| PureWaterCompUser | 40027 | Float | 2 | R/W | pH /C | | |
| OutputMode | 40029 | Unsigned Integer | 1 | R/W | | | 0/1/2 |
| CalLeave | 40030 | Unsigned Integer | 1 | R/W | | | 0/1/2 |
| CalAbort | 40031 | Unsigned Integer | 1 | R/W | | | 0/1 |
| CalEditValueTag | 40032 | Unsigned Integer | 1 | R/W | | | |
| CalEditPhValue | 40033 | Float | 2 | R/W | pH | | |
| CalEditOrpValue | 40033 | Float | 2 | R/W | mV | | |
| PhSlope | 40035 | Float | 2 | R/W | mV /pH | | |
| SoftwareVersion | 40037 | Float | 2 | R | | | |
| SoftwareVersion1 | 40039 | Float | 2 | R | | | |
| SoftwareVersion2 | 40041 | Float | 2 | R | | | |
| SerialNumber | 40043 | String | 6 | R | | | |
| PhOffset | 40049 | Float | 2 | R/W | | | |
| OrpOffset | 40051 | Float | 2 | R/W | mV | | |
| CalCode | 40053 | Unsigned Integer | 1 | R/W | | | |
| SensorLogInterval | 40054 | Unsigned Integer | 1 | R/W | | | 0/1/2/3/4/5/6/7/8/9/10/11/12/13 |

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| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|-------------------|----------|------------------|--------|-------------|----------------|-----------|---------------------------------|
| TempLogInterval | 40055 | Unsigned Integer | 1 | R/W | | | 0/1/2/3/4/5/6/7/8/9/10/11/12/13 |
| Signal | 40056 | Float | 2 | R/W | mV | | |
| ProdDate | 40058 | Time2 | 2 | R/W | | | |
| ActiveElectrode | 40060 | Float | 2 | R/W | M<Ohm> | | |
| RefElectrode | 40062 | Float | 2 | R/W | M<Ohm> | | |
| LastCalDate | 40064 | Time2 | 2 | R | | | |
| SensorDays | 40066 | Unsigned Integer | 1 | R/W | Day | | |
| ElectrodeDays | 40067 | Unsigned Integer | 1 | R/W | Day | | |
| ElectrodeStatus | 40068 | Unsigned Integer | 1 | R | | | 0/1 |
| SensorType | 40069 | Unsigned Integer | 1 | R | | | 0/1 |
| RejectFrequency | 40070 | Unsigned Integer | 1 | R/W | | | 0/1 |
| DeviceDriver | 40071 | Unsigned Integer | 1 | R | | | |
| DeviceDriver1 | 40072 | Unsigned Integer | 1 | R | | | |
| DeviceDriver2 | 40073 | Unsigned Integer | 1 | R | | | |
| DeviceDriver3 | 40074 | Unsigned Integer | 1 | R | | | |
| DeviceDriver4 | 40075 | Unsigned Integer | 1 | R | | | |
| CalWarningDays | 40076 | Unsigned Integer | 1 | R/W | Day | | |
| SensorWarningDays | 40077 | Unsigned Integer | 1 | R/W | Day | | |
| SensorADCCnts | 40078 | Integer | 2 | R | | | |
| TempADCCnts | 40080 | Integer | 2 | R | | | |
| EditTempValue | 40082 | Float | 2 | R/W | TempUnits | | |
| EditTempMin | 40084 | Float | 2 | R | | | |
| EditTempMax | 40086 | Float | 2 | R | | | |
| ImpOnOff | 40088 | Unsigned Integer | 1 | R/W | | | 0/1 |
| ImpedActCorr | 40089 | Float | 2 | R/W | | | |
| ImpedActCnts | 40091 | Float | 2 | R | | | |
| ImpedRefCorr | 40093 | Float | 2 | R/W | | | |
| ImpedRefCnts | 40095 | Float | 2 | R | | | |
| ActLoLimit | 40097 | Float | 2 | R/W | M<Ohm> | | |
| ActHiLimit | 40099 | Float | 2 | R/W | M<Ohm> | | |
| RefLoLimit | 40101 | Float | 2 | R/W | M<Ohm> | | |
| RefHiLimit | 40103 | Float | 2 | R/W | M<Ohm> | | |
| SensorName8 | 40105 | String | 8 | R | M<Ohm> | | |
| BootVersion | 40113 | Float | 2 | R | | | |

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 |