

Modbus Register Phosphax sc HR

V 2.30

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| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|------|----------|------------------|--------|-------------|----------------|-----------|------------------------------|
| | 40001 | Float | 2 | R | | | |
| | 40005 | String | 8 | R/W | | | |
| | 40013 | Float | 2 | R | | | |
| | 40015 | Float | 2 | R | | | |
| | 40017 | Float | 2 | R | | | |
| | 40019 | Float | 2 | R | | | |
| | 40021 | Float | 2 | R | | | |
| | 40023 | Float | 2 | R | | | |
| | 40025 | Integer | 1 | R | | | |
| | 40026 | Integer | 1 | R | | | |
| | 40027 | Unsigned Integer | 1 | R | % | | |
| | 40028 | Unsigned Integer | 1 | R | | | 0/1 |
| | 40029 | Unsigned Integer | 1 | R | % | | |
| | 40030 | Float | 2 | R | C | | |
| | 40032 | Float | 2 | R | mg /l | | |
| | 40034 | String | 8 | R/W | | | |
| | 40042 | Unsigned Integer | 1 | R | | | |
| | 40043 | Unsigned Integer | 1 | R | s | | |
| | 40044 | Float | 2 | R | C | | |
| | 40046 | Float | 2 | R | | PO4-P | |
| | 40048 | Float | 2 | R | | PO4-P | |
| | 40050 | Float | 2 | R | | PO4 | |
| | 40052 | Float | 2 | R | | PO4 | |
| | 40054 | Float | 2 | R | | P2O5 | |
| | 40056 | Float | 2 | R | | P2O5 | |
| | 40058 | Float | 2 | R | | | |
| | 40060 | Unsigned Integer | 1 | R/W | | | 0/1/2/3/4/5/6/7/8/9/10/11/12 |
| | 40061 | Unsigned Integer | 1 | R/W | | | 1/2/3/4/5/6/7/8/9/10/11/12 |
| | 40062 | Float | 2 | R | | | |
| | 40064 | Float | 2 | R | | | |
| | 40066 | Float | 2 | R | | | |
| | 40068 | Float | 2 | R | | | |
| | 40070 | Unsigned Integer | 1 | R | % | | |
| | 40071 | Unsigned Integer | 1 | R/W | | | |
| | 40072 | Unsigned Integer | 1 | R/W | | | |
| | 40073 | Unsigned Integer | 1 | R/W | | | |
| | 40074 | Unsigned Integer | 1 | R/W | | | |
| | 40075 | Unsigned Integer | 1 | R/W | | | |
| | 40076 | Unsigned Integer | 1 | R/W | | | |

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| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|------|----------|------------------|--------|-------------|----------------|-----------|---|
| | 40077 | Unsigned Integer | 1 | R/W | | | |
| | 40078 | Unsigned Integer | 1 | R/W | | | |
| | 40079 | Float | 2 | R | BAR | | |
| | 40081 | Float | 2 | R | BAR | | |
| | 40083 | Float | 2 | R/W | | | |
| | 40096 | Unsigned Integer | 1 | R/W | | | |
| | 40097 | Unsigned Integer | 1 | R/W | | | 0/1/2 |
| | 40098 | Unsigned Integer | 1 | R/W | | | 0/1/2 |
| | 40099 | Float | 2 | R | | | |
| | 40101 | Float | 2 | R | % | | |
| | 40103 | Unsigned Integer | 1 | R/W | | | U0/2 |
| | 40104 | Float | 2 | R | | | |
| | 40106 | String | 6 | R | | | |
| | 40112 | Unsigned Integer | 1 | R | % | | |
| | 40113 | Time2 | 2 | R/W | | | |
| | 40115 | Unsigned Integer | 1 | R/W | | | |
| | 40117 | Unsigned Integer | 1 | R/W | | | |
| | 40118 | Unsigned Integer | 1 | R/W | | | 0/1/3/6/8/12/24 |
| | 40119 | Time2 | 2 | R/W | | | |
| | 40121 | Unsigned Integer | 1 | R/W | | | P15/14/16 |
| | 40122 | Float | 2 | R/W | | | |
| | 40125 | Unsigned Integer | 1 | R/W | | | P15/14/16 |
| | 40126 | Unsigned Integer | 1 | R/W | | | U0/2 |
| | 40127 | Unsigned Integer | 1 | R | % | | |
| | 40128 | Unsigned Integer | 1 | R/W | | | |
| | 40129 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40130 | Float | 2 | R | | | |
| | 40132 | Unsigned Integer | 1 | R | | | 0/1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17 |
| | 40133 | Unsigned Integer | 1 | R/W | | | |
| | 40134 | Unsigned Integer | 1 | R/W | | | |
| | 40135 | Unsigned Integer | 1 | R/W | | | |
| | 40136 | Unsigned Integer | 1 | R/W | | | |

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| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|------|----------|------------------|--------|-------------|----------------|-----------|-------------|
| | 40137 | Unsigned Integer | 1 | R/W | | | |
| | 40138 | Unsigned Integer | 1 | R/W | | | |
| | 40140 | Unsigned Integer | 1 | R/W | | | |
| | 40143 | String | 8 | R | | | |
| | 40151 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40152 | Unsigned Integer | 1 | R/W | | | 20/15/10/5 |
| | 40155 | Unsigned Integer | 1 | R/W | % | | |
| | 40158 | Unsigned Integer | 1 | R/W | % | | |
| | 40160 | Integer | 1 | R/W | Day | | |
| | 40163 | Integer | 1 | R/W | Day | | |
| | 40172 | Unsigned Integer | 1 | R | | | |
| | 40173 | Unsigned Integer | 1 | R | | | |
| | 40174 | Float | 2 | R | | | |
| | 40176 | Unsigned Integer | 2 | R/W | h | | |
| | 40180 | Integer | 1 | R/W | Day | | |
| | 40189 | Integer | 1 | R/W | Day | | |
| | 40198 | Time2 | 2 | R/W | | | |
| | 40200 | Time2 | 2 | R/W | | | |
| | 40211 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40216 | Time2 | 2 | R | | | |
| | 40218 | Time2 | 2 | R | | | |
| | 40220 | Time2 | 2 | R | | | |
| | 40222 | Time2 | 2 | R | | | |
| | 40224 | Time2 | 2 | R | | | |
| | 40226 | Time2 | 2 | R | | | |
| | 40228 | Time2 | 2 | R | | | |
| | 40230 | Time2 | 2 | R | | | |
| | 40232 | Time2 | 2 | R | | | |
| | 40234 | Time2 | 2 | R | | | |
| | 40236 | Float | 2 | R | mg /l | | |
| | 40238 | Float | 2 | R | mg /l | | |
| | 40240 | Float | 2 | R | mg /l | | |
| | 40242 | Float | 2 | R | mg /l | | |
| | 40244 | Float | 2 | R | mg /l | | |
| | 40246 | Float | 2 | R | mg /l | | |
| | 40248 | Float | 2 | R | mg /l | | |
| | 40250 | Float | 2 | R | mg /l | | |
| | 40252 | Float | 2 | R | mg /l | | |
| | 40256 | Unsigned Integer | 1 | R/W | % | | 14/10/8/0 |
| | 40257 | Unsigned Integer | 1 | R/W | % | | 40/30/15 |

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| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|------|----------|------------------|--------|-------------|----------------|-----------|-------------|
| | 40258 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40260 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40262 | Float | 2 | R/W | | | |
| | 40264 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40271 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40273 | Float | 2 | R | C | | |
| | 40275 | Float | 2 | R | C | | |
| | 40277 | Unsigned Integer | 2 | R | | | |
| | 40279 | Unsigned Integer | 2 | R | | | |
| | 40281 | String | 8 | R/W | | | |
| | 40305 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40306 | Unsigned Integer | 1 | R/W | | | 0/1 |
| | 40327 | Float | 2 | 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 |