

Modbus Register PAH500 sc

V1.02



Be Right™

PAH500 sc V1.02

| Name | Register | Data Type | Length | Access Mode | Discrete Range | Min / Max | Description |
|--------------------|----------|------------------|--------|-------------|--|-------------|-------------|
| PAH | 40001 | Float | 2 | R | | 0 /9999 | |
| MV RAW | 40003 | Float | 2 | R | | -2500 /5500 | |
| SensorName6 | 40005 | String | 6 | R/W | | | |
| SoftwareVersion | 40013 | Float | 2 | R | | 0 /999.99 | |
| SerialNumber | 40015 | String | 6 | R | | | |
| SensorLogInterval | 40021 | Unsigned Integer | 1 | R/W | 0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12 /13 | | |
| RAW INTERVAL | 40022 | Unsigned Integer | 1 | R/W | 0 /1 /2 /3 /4 /5 /6 /7 /8 /9 /10 /11 /12 /13 | | |
| ProdDate | 40023 | Time2 | 2 | R/W | | | |
| DeviceDriver | 40025 | Unsigned Integer | 1 | R | | 0 /65535 | |
| SensorADCCnts | 40026 | Integer | 2 | R | | 0 /16777215 | |
| BootVersion | 40028 | Float | 2 | R | | 0 /10 | |
| MEAS UNITS | 40030 | Unsigned Integer | 1 | R/W | U38 /39 /2 /0 | | |
| MV SIGNAL | 40031 | Float | 2 | R | | -2500 /5500 | |
| FILTER | 40033 | Unsigned Integer | 1 | R/W | | 0 /60 | |
| SLOPE | 40034 | Float | 2 | R/W | | 0.01 /9.99 | |
| OFFSET | 40036 | Float | 2 | R/W | | -9999 /9999 | |
| REJECT FREQ | 40038 | Unsigned Integer | 1 | R/W | 0 /1 | | |
| FACTORY CAL POINT | 40039 | Unsigned Integer | 1 | R/W | 0 /1 /255 | | |
| FACTORY CAL MV | 40040 | Float | 2 | R/W | | -5000 /5500 | |
| FACTORY CAL CONC | 40042 | Float | 2 | R/W | | 0 /5000 | |
| SIGNAL AVERAGE | 40044 | Unsigned Integer | 1 | R/W | | 1 /16 | |
| BOARD TEMP | 40045 | Float | 2 | R | | -50 /100 | |
| LED OPERATION | 40047 | Integer | 2 | R | | 0 /9999999 | |
| POWER CHECK | 40049 | Unsigned Integer | 1 | R | | 0 /2000 | |
| OutputMode | 40050 | Unsigned Integer | 1 | R/W | 0 /1 /2 | | |
| CalLeave | 40051 | Unsigned Integer | 1 | R/W | 0 /1 /2 | | |
| CalEditValue | 40052 | Float | 2 | R/W | | 0 /9999 | |
| CalAbort | 40054 | Unsigned Integer | 1 | R/W | 0 /1 | | |
| CAL DAYS | 40055 | Unsigned Integer | 1 | R | | 0 /999 | |
| CLEAN DAYS | 40056 | Unsigned Integer | 1 | R | | 0 /999 | |
| CAL WARNING DAYS | 40057 | Unsigned Integer | 1 | R/W | | 0 /999 | |
| CLEAN WARNING DAYS | 40058 | Unsigned Integer | 1 | R/W | | 0 /999 | |
| BOARD CAL POINT | 40059 | Unsigned Integer | 1 | R/W | 0 /1 /255 | | |
| BOARD CAL MV | 40060 | Float | 2 | R/W | | -5000 /5500 | |
| BOARD CAL ADCCnts | 40062 | Integer | 2 | R/W | | 0 /16777215 | |

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|---------------|----------|------------------|--------|-------------|------------------------|------------|------------------|
| SENSOR TYPE | 40064 | Unsigned Integer | 1 | R | 0 /1 | | |
| LAST CAL DATE | 40065 | Time2 | 2 | R | | | |
| Measure State | 40067 | Unsigned Integer | 1 | R | 0 /1 /2 /3 /4 /5 /6 /7 | | |
| WARNING LEVEL | 40068 | Float | 2 | R/W | | 0 /9999 | |
| SENSOR SN | 40070 | String | 6 | R/W | | | |
| SCALE FACTOR | 40076 | Float | 2 | R/W | | 0.01 /9.99 | The scale factor |
| CalPAHReading | 40078 | Float | 2 | R | | -999 /9999 | |

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 |