

# Modbus Register GSx440sc

V 1.00



*Be Right™*

## GSx440sc V 1.00

| Name                | Register | Data Type        | Length | Access Mode | Discrete Range | Min / Max | Description                  |
|---------------------|----------|------------------|--------|-------------|----------------|-----------|------------------------------|
| H2S IN LIQUID       | 40001    | Float            | 2      | R           | mg /l          | H2S       |                              |
| H2S IN GAS          | 40003    | Float            | 2      | R           | ppm            | H2S       |                              |
| TEMPERATURE         | 40005    | Float            | 2      | R           | C              |           |                              |
| SensorName6         | 40007    | String           | 6      | R/W         |                |           |                              |
| SoftwareVersion     | 40015    | Float            | 2      | R           |                |           |                              |
| SerialNumber        | 40017    | String           | 6      | R           |                |           |                              |
| LIQUID INTERVAL     | 40023    | Unsigned Integer | 1      | R/W         |                |           | 0/1/2/3/4/5/6/7/8/9/10/11/12 |
| GAS INTERVAL        | 40024    | Unsigned Integer | 1      | R/W         |                |           | 0/1/2/3/4/5/6/7/8/9/10/11/12 |
| TEMP INTERVAL       | 40025    | Unsigned Integer | 1      | R/W         |                |           | 0/1/2/3/4/5/6/7/8/9/10/11/12 |
| ProdDate            | 40026    | Time2            | 2      | R/W         |                |           |                              |
| DeviceDriver        | 40028    | Unsigned Integer | 1      | R           |                |           |                              |
| BootVersion         | 40029    | Float            | 2      | R           |                |           |                              |
| SIGNAL AVERAGE      | 40031    | Unsigned Integer | 1      | R/W         |                |           |                              |
| OutputMode          | 40032    | Unsigned Integer | 1      | R/W         |                |           | 0/1/2                        |
| CAL DAYS            | 40033    | Unsigned Integer | 1      | R           | days           |           |                              |
| CAL WARNING DAYS    | 40034    | Unsigned Integer | 1      | R/W         | days           |           |                              |
| LAST CAL DATE       | 40035    | Time2            | 2      | R           |                |           |                              |
| H2S LIQUID LIMIT    | 40037    | Float            | 2      | R/W         | mg /l          | H2S       |                              |
| H2S AIR LIMIT       | 40039    | Float            | 2      | R/W         | ppm            | H2S       |                              |
| SENSOR SN           | 40041    | String           | 6      | R           |                |           |                              |
| SOFT VERSION        | 40047    | String           | 6      | R           |                |           |                              |
| SENSOR PRODUCT TYPE | 40053    | String           | 6      | R           |                |           |                              |
| SENSOR ERROR CODE   | 40059    | Unsigned Integer | 1      | R           |                |           |                              |
| BOARD TEMP          | 40060    | Float            | 2      | R/W         | C              |           |                              |
| ON HOURS            | 40062    | Unsigned Integer | 2      | R           | h              |           |                              |
| STATUS              | 40064    | String           | 6      | R           |                |           |                              |
| SLOPE DATE          | 40070    | String           | 8      | R           |                |           |                              |
| ERROR CNT           | 40078    | Unsigned Integer | 1      | 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              |