

The **QRS REMOTE SENSOR HEAD (Quick Release System)** is based on the standard QRS Sensor Head but taken a little bit further to offer simplicity and smaller form factor design for gas detection to meet the challenges faced by technicians for a quick turn-around repair and where space matters.

The head is designed to be in-line with the current EX Solutio Engineering Range of sensors such as the MEMS and DEMS Series, to meet the toughest conditions (certified **Ex ia I**) in the Mining and Commercial Industries.

The Unit (**QRS REMOTE SENSOR HEAD**) can be removed and easily replaced by another, this reduces costs and time in replacing Sensors. The Head is a stand-alone unit complete with MODBUS RTU via RS485 communications or 3-wire Analog output. The technician can simply pre-calibrate numerous **QRS REMOTE SENSOR HEADS** on surface to replace older heads in the working areas. The **QRS REMOTE SENSOR HEAD** also makes it easier to replace the internal detection Cell once its lifespan has elapsed. The unit can then be recalibrated so as to be ready to be used for the next head replacement when needed.

The design only caters for a single gas detection cell so as to keep the unit as small as possible whilst providing the most features when coupled with the Ex Solutio MEMS and DEMS Sensor range. A list of gases shown below is some of the common gases available that can be selected, however the hardware is not limited to the table below as there are many other gases available that can be detected (information available on request).

| Gas Type | Gas Range | Detection T90 |
|----------|--------------------------------------|-----------------------|
| CH4 | 0 - 4% LEL | < 20s |
| CO | 0-250 / 500 / 1000 / 5000 / 20000ppm | < 25s |
| NH3 | 0 - 100ppm / 0 - 500ppm | < 40s / < 90s |
| O2 | 1-25% | < 15s |
| HCN | 0 – 100ppm | < 120s |
| H2S | 0 – 200ppm | < 55s |
| HCL | 0 – 200ppm | < 200s |
| ETO | 0 – 100ppm | < 200s |
| NO2 | 0 - 20ppm / 0 - 200ppm | < 40s / < 60s |
| COCL2 | 0 – 1ppm | < 120s |
| SO2 | 0-50ppm / 0-100ppm / 0-2000ppm | < 35s / < 40s / < 30s |
| CO2 | 0-5% | < 45s |

QRS Sensor Head Features

- Quick turn-around time to replace older heads in working areas
- Low power consumption
- Easily change detection Cell
- Small and Light weight “Plug and Play” unit
- Calibration can be done off site as the QRS Remote head stores all Calibration and detection Cell information
- Support for 3 different sizes of detection cells from various Cell OEMs.
- Interface:
 - MODBUS RTU via RS485
 - Analog Output 4-20mA (3wire) or 0.4-2V
 - Relay Output (Voltage Free)

I.S. Parameters

Ui = 16.1Vdc li = 3A
Ci = Neg. Li = Neg.

Operating Parameters

Vin = 6-32Vdc I=30-120mA
Power Consumption = 300mW

(Power Consumption depends on Gas Sensor Head chosen).

Ordering Part Numbers

EXS.0021.03 – QRS Remote Sensor Head Series

...Please Call for custom options...

Due to the numerous combinations available it would be too large to list all of them here