

# Gas sampling fitting for hydrogen measurement with H2 sensor



## Advantages:

- Hydrogen measurement in gases
- Easy gas sampling
- Affordable
- Reliable
- Insensitive to temperature
- Insensitive to vibrations
- Easily interchangeable
- Fitting adapted to customer requirements
- Nominal length as specified

The H2-probe measures the hydrogen content in one measuring chamber at the end of the measuring gas fitting. The measuring chamber is controlled to 100°C. The H2 measuring range is 0 ...80% H2.

Analog output module provides an isolated analog output with a voltage range 0...10V or 2...10V, or a current range 0..20mA or 4..20mA.

There are two relays with max 5A in a standard configuration. Those two digital outputs can be used according to operator configuration:

- H2>C1
- C1<H2<C2
- TempBlock>C1
- PCBTemp>C1
- All Important Errors
- Over Tem
- Under Temp
- Over or Under Temp
- Good Temp Calibration

There is Isolated RS-485/RS-422 communication interface, or non-isolated RS-232 and RTU Modbus protocol.

### Order number

### Device name

#### GEA with H2-Sensor Standard

534-4050	GSF with H2-Sensor Standard NL 500
534-4060	GSF with H2-Sensor Standard NL 600
534-4072	GSF with H2-Sensor Standard NL 720
534-4080	GSF with H2-Sensor Standard NL 800
534-4090	GSF with H2-Sensor Standard NL 900
534-4100	GSF with H2-Sensor Standard NL 1000
534-4000	GSF with H2-Sensor Standard special length

#### GEA with H2-Sensor Pit type furnace ( Diffusion )

534-6050	GSF with H2-Sensor Pit type furnace ( Diffusion ) NL 500
534-6060	GSF with H2-Sensor Pit type furnace ( Diffusion ) NL 600
534-6072	GSF with H2-Sensor Pit type furnace ( Diffusion ) NL 720
534-6080	GSF with H2-Sensor Pit type furnace ( Diffusion ) NL 800
534-6090	GSF with H2-Sensor Pit type furnace ( Diffusion ) NL 900
534-6100	GSF with H2-Sensor Pit type furnace ( Diffusion ) NL 1000
534-6000	GSF with H2-Sensor Pit type furnace ( Diffusion ) special length

#### Optional accessories

534-4051	Power supply 24V 3,2A
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## Technical data:

### Dimensions of probe head:

105 x 215 x 85 mm (W x H x D)

### Nominal length of the gas sampling pipe:

500 ... 1100 mm according to order

720 mm is standard

### Connection of H2-Sensor:

- Industrial 10-pol. round connector for power supply relays and analog output
- Sub-D 9-pol. for two type communication

### Analog outputs:

Isolated analog output with:

- voltage range 0...10V or 2...10V, or
- current range 0...20mA or 4...20mA

### Digital outputs:

two relays, 5A max current, both are configurable

### Necessary accessory:

Power supply 24 VDC, 3A

### Measuring range H2 sensor:

0...80% H2

### Ambient temperature:

+ 10 ° C ... + 60 ° C