

## Application checklist for Stange-H2-Sensor

### Contact

Name		Mail	
Company		Phone	
Address		Fax	

### Place of use

Country		Town	
---------	--	------	--

### Description of the application

- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> Nitriding        | <input type="checkbox"/> Oxinitration |
| <input type="checkbox"/> Nitrocarburizing | <input type="checkbox"/> Preoxidation |
| <input type="checkbox"/> Post-oxidation   | <input type="checkbox"/> Carburizing  |
| <input type="checkbox"/> Low Pressure     | <input type="checkbox"/> Vacuum       |
| <input type="checkbox"/> other: _____     |                                       |

### Measuring range [Vol-% H2]

- |                                  |                                 |
|----------------------------------|---------------------------------|
| <input type="checkbox"/> 0 - 60  | <input type="checkbox"/> 0 - 75 |
| <input type="checkbox"/> 0 - 100 | <input type="checkbox"/> _____  |

### Requirements to the measurement

- Monitoring of a limit value %H2
- Measurement %H2
- Standard accuracy 0.5% from range
- Standard reaction time 2 minutes

### Measuring gas components from / to [%]

- |   |       |
|---|-------|
| <input type="checkbox"/> O <sub>2</sub>                 | _____ |
| <input type="checkbox"/> N <sub>2</sub>                 | _____ |
| <input type="checkbox"/> Ar                             | _____ |
| <input type="checkbox"/> He                             | _____ |
| <input type="checkbox"/> CO                             | _____ |
| <input type="checkbox"/> CO <sub>2</sub>                | _____ |
| <input type="checkbox"/> CH <sub>4</sub>                | _____ |
| <input type="checkbox"/> C <sub>3</sub> H <sub>8</sub>  | _____ |
| <input type="checkbox"/> C <sub>4</sub> H <sub>10</sub> | _____ |
| <input type="checkbox"/> H <sub>2</sub>                 | _____ |
| <input type="checkbox"/> NH <sub>3</sub>                | _____ |
| <input type="checkbox"/> Air                            | _____ |
| <input type="checkbox"/> Halogens                       | _____ |
| <input type="checkbox"/> Corrosive                      | _____ |
| <input type="checkbox"/> Organic                        | _____ |
| <input type="checkbox"/> Steam                          | _____ |
| <input type="checkbox"/> Soot                           | _____ |
| <input type="checkbox"/> other:                         | _____ |

### Safety requirements

- none
- yes, which? \_\_\_\_\_

### Explosion protection

- none
- yes, zone? \_\_\_\_\_

### Pressure [mbar absolute]

- atmospheric
- Low pressure 3 to 30
- from / to: \_\_\_\_\_

### Ambient temperature 5 to 45°C

- yes
- no, range: \_\_\_\_\_

### Humidity max 80% at 20°C

- yes
- no, range: \_\_\_\_\_

### Temperature in the recipient [°C]

- same as ambient temperature
- from / to: \_\_\_\_\_

### Flow rate [m<sup>3</sup>/h]

- none
- from / to: \_\_\_\_\_
- at wide of the tube: \_\_\_\_\_

### Installation

- horizontal, >2° tilt, flange downward
- vertical, flange downward
- other: \_\_\_\_\_

### Evaluation electronics

- Standard entry PLC
- Measuring instrument
- Display indication
- other: \_\_\_\_\_
- Recorder

### Dust [g/cm<sup>3</sup>]

- none
- from / to: \_\_\_\_\_

### Mechanical stress

- none
- yes, which: \_\_\_\_\_

### Distance from flange to recipient [mm]

- up to 100
- more than: \_\_\_\_\_

### Reduction of measuring gas input DN 16

- no
- yes, smallest DN [mm]: \_\_\_\_\_

### Protection

- IP 20
- other: \_\_\_\_\_

Please note the operating conditions beyond this checklist and the technical data, described in the manual for the H2 sensor!

Please send the completed checklist to:

Mail: awolfram@stange-elektronik.de

Fax: +49 (0) 36202 - 7509-91