

## CONTHOS 3 PMD – Process Gas Analyzer Customer Questionnaire

### Contact details

|          |  |                          |                           |
|----------|--|--------------------------|---------------------------|
| Company: |  | <input type="checkbox"/> | System builder / Reseller |
| Name:    |  | <input type="checkbox"/> | End user                  |
| Dept.:   |  |                          |                           |
| Address: |  |                          |                           |
| Country: |  |                          |                           |
| E-mail:  |  | Phone:                   |                           |
| Website: |  |                          |                           |

### Type of sample gas / application

|                                   |   |  |   |
|-----------------------------------|---|--|---|
| <input type="checkbox"/> Biogas   | <input type="checkbox"/> Metallurgy     | <input type="checkbox"/> Synthesis gas | <input type="checkbox"/> Refinery               |
| <input type="checkbox"/> Chemical | <input type="checkbox"/> Gas production | <input type="checkbox"/> Petrochemical | <input type="checkbox"/> Institute / University |
| other:                            |   |  |   |

### Installation site

Note: CONTHOS gas analyzers are intended for indoor use only. An explosion-proof model is not available.

|                           | min   | max                                | units                              |
|---------------------------|---|------------------------------------|------------------------------------|
| Ambient temp. at location |   |                                    |                                    |
| Sample gas dew point      |   |                                    |                                    |
| Sample gas pressure       |   |                                    |                                    |
| Sample gas temperature    |   |                                    |                                    |
| Hazardous area            | <input type="checkbox"/> Ex free<br>(general purpose) | <input type="checkbox"/> Ex Zone 2 | <input type="checkbox"/> Ex Zone 1 |

### Gas composition and characteristics

Please list all relevant gases - including N<sub>2</sub>.



|    | Component | min.<br>(vol.%) | normal<br>(vol.%) | max.<br>(vol.%) | Analyzer range if component measured<br>(→ for possible use in dynamic<br>interference correction) |
|----|-----------|-----------------|-------------------|-----------------|--|
| 1. |           |                 |                   |                 |  |
| 2. |           |                 |                   |                 |  |
| 3. |           |                 |                   |                 |  |
| 4. |           |                 |                   |                 |  |
| 5. |           |                 |                   |                 |  |
| 6. |           |                 |                   |                 |  |
| 7. |           |                 |                   |                 |  |

**Desired CONTHOS PMD measuring range(s)**

The CONTHOS can be configured with up to 3 linearized, independently configurable, switchable ranges.

|         | Begin of range | End of range | Units<br>(vol.% or ppm) | Measured component   |
|---------|----------------|--------------|-------------------------|----------------------|
| Range 1 | to             |              |                         | <b>O<sub>2</sub></b> |
| Range 2 | to             |              |                         | <b>O<sub>2</sub></b> |
| Range 3 | to             |              |                         | <b>O<sub>2</sub></b> |

**CONTHOS 3 PMD analyzer version**

|                          | CONTHOS 3E PMD  | CONTHOS 3F PMD  |
|--------------------------|---|---|
| Housing version          |    |                |
|                          | <input type="checkbox"/> 19" rack housing   | <input type="checkbox"/> Field housing  |
| Sample gas connectors    | <input type="checkbox"/> for tubing $\phi$ 6mm<br><input type="checkbox"/> for tubing $\phi$ 1/4"<br><input type="checkbox"/> NPT-1/4" female | <input type="checkbox"/> for tubing $\phi$ 6mm<br><input type="checkbox"/> for tubing $\phi$ 1/4" |
| Housing purge connectors |   | <input type="checkbox"/> for tubing $\phi$ 6mm<br><input type="checkbox"/> for tubing $\phi$ 1/4" |
| Flame arrestors          | <input type="checkbox"/> external flame arrestors (customer connection NPT-1/4" female)   |   |
| Power supply             | Standard: 100-240VAC, 50-60Hz   |   |

**Interface expansion options**

|   |
|---|
| <input type="checkbox"/> Digital I/O expansion module |
| <input type="checkbox"/> Modbus RTU - RS485           |
| <input type="checkbox"/> Modbus TCP                   |

**Comments**

NOTE 1: The CONTHOS 3-PMD uses a paramagnetic sensor. This measuring principle is highly selective for oxygen analysis. Nonetheless it is necessary to consider potential interferences presented by the different constituents.

NOTE 2: The customer must ensure that the sample gas is dry and free of particulates.

NOTE 3: Unless otherwise specified the CONTHOS gas analyzer is neither ex-proof nor intrinsically safe in terms of explosion protection.

The CONTHOS should not be used for measuring ignitable gas mixtures.

The customer must ensure compliance with applicable regulations when using the analyzer with inflammable or toxic gases or when installing within explosion endangered environments.