

Translation

# Type Examination Certificate

- Gas detectors -

**PFG 10 G 002 X**

**Equipment:** XNX Universal Transmitter

**Manufacturer:** Honeywell Analytics Inc.

**Address:** Lincolnshire, Illinois 60069, USA

The certification body of DEKRA EXAM GmbH certifies that this equipment has been found with regard to the measuring function for oxygen (measurement of oxygen deficiency and enrichment) in the measuring range 0 - 25 % (v/v) to comply with the requirements of the standards

EN 50104:2010

EN 50271:2010

with regard to the measuring function for hydrogen sulphide in the measuring range 1 - 10... 50 ppm (sensor type 1) and 1 - 50... 100 ppm (sensor type 2) and for carbon monoxide in the measuring range 5 - 100... 500 ppm to comply with the requirements of the standards

EN 45544-1:1999 in conjunction with EN 45544-2:1999

EN 50271:2010

with regard to the measuring function for hydrogen sulphide in the measuring range 1 - 100... 500 ppm (sensor type 2) to comply with the requirements of the standards

EN 45544-1:1999 in conjunction with EN 45544-3:1999

EN 50271:2010

This type examination certificate covers equipment with software versions 110 (main), 3 (4-20 mA monitoring), 102 (relay module), 30 (ECC sensor software), 5 (ECC Sensor Gas Parameter Table H<sub>2</sub>S(H)) and 6 (ECC Sensor Gas Parameter Table H<sub>2</sub>S(L), ECC Sensor Gas Parameter Table CO and ECC Sensor Gas Parameter Table O<sub>2</sub>).

On the basis of DIN EN 45011, this certification includes a type examination. The examination and test results and the design of the equipment are recorded in the test reports PFG-no. 41300111P and 41300111P NI.

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

The manufacturer declares the conformity of the manufactured products with the certified design by marking them with the number of this type examination certificate.

**DEKRA EXAM GmbH**

Bochum, dated 26. October 2011

Signed: Müller

Signed: Kiesewetter

\_\_\_\_\_  
Certification body

\_\_\_\_\_  
Special services unit

Annex to

# Type Examination Certificate

## PFG 10 G 002 X

### Description of the gas detector

The transmitter XNX when operated with sensors type EC (H<sub>2</sub>S types 1 and 2, CO and O<sub>2</sub>) is a fixed apparatus for the measurement of toxic gases or oxygen, respectively. The sensors may be directly connected to the transmitter housing or operated as remote sensors. A 4-20 mA interface serves for transmission of the measured value to a control unit. The transmitter can be equipped with a relay option which provides two alarm relays, one fault relay and an input for resetting latching messages.

This certificate covers XNX Universal Transmitters with model number XNX AM(1)(2)-(3)(4)(5):

- (1) S or A stainless (S) or aluminium (A) construction
- (2) E (EC Option) with EC cartridge XNXXSH1SS (sensor type 1) for measurement of hydrogen sulphide in the measuring range 0 - 50 ppm, EC cartridge XNXXSH2SS (sensor type 2) for measurement of hydrogen sulphide in the measuring range 0 - 500 ppm, EC cartridge XNXXSC1SS for measurement of carbon monoxide in the measuring range 0 - 500 ppm or EC cartridge XNXXSO1SS for measurement of oxygen in the measuring range 0 - 25 % (v/v)
- (3) N or R with (R) or without (N) "Relay Option"
- (4) N or H with (H) or without (N) "Local Hart Interface Option" for configuration and maintenance of the apparatus
- (5) NNN with EC Option always NNN

### Type of protection

**see DEMKO 09 ATEX 0809943X  
and DEMKO 08 ATEX 0804823X**

### Special conditions for safe use

- Delays resulting from transmission errors between sensor and transmitter extend response times  $t_{90}$  by more than one-third. The period until fault indication is 10 seconds.
- The HART interface is subject of this EC-type examination certificate only for the purpose of configuration and maintenance.
- The options "Modbus interface" and "Foundation Fieldbus interface" are not subject of this EC-type examination certificate.
- Long-term exposure (> 20 minutes) to concentrations exceeding the fullscale range of the H<sub>2</sub>S sensor type 2 can cause it to lose sensitivity. The measured value may decrease even though high levels of toxic gas are still present. If such conditions can occur, set the control unit to latch at overrange. In standalone operation, set alarms to latching. When resetting the overrange or alarm, verify correct operation of the transmitter.



**Additional Information**

- This type examination certificate includes the following accessories:
  - Weatherproof Cap XNX EC (not for the purpose of calibration)
  - Calibration Cup S3KCAL
  - Remote Sensor Mounting Kit (S3KRMK)

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 26. October 2011  
PFG-Kie

**DEKRA EXAM GmbH**

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Certification body

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Special services unit