EXPLOSION PROTECTION
CERTIFICATE OF CONFORMITY

Cert No. GYJ071048X

This is to certify that the product

All-metal Miniature Flowmeter

manufactured by Krohne Meßtechnik GmbH & Co KG
(Address: Ludwig Krohne Straße 5, Duisburg, Germany)

which model is DK32 Series & DK34 Series

Ex marking Ex nA Ⅱ T1～T6

product standard /

drawing number ZZ 8144800100b

has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2000 GB 3836.8 -2003

This Approval shall remain in force until 2012.06.13

Remarks 1. Special conditions for safe use specified in the attachment to this certificate.

Director

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

Issued Date 2007.06.14

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

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国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

(GYJ071048X) (Attachment Ⅰ)

Attachment Ⅰ to GYJ071048X

1. Description

DK32 Series & DK34 Series All-metal Miniature Flowmeter, manufactured by Krohne Meßtechnik GmbH & Co KG, has been certified National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI).

All-metal Miniature Flowmeter accords with following standards:

GB3836.1-2000 "Electrical apparatus for explosive gas atmospheres Part 1: General requirements"

GB3836.8-2003 "Electrical apparatus for explosive gas atmospheres Part 8: Type of protection 'n'"

All-metal Miniature Flowmeter has the Ex-marking Ex nA Ⅱ T1~T6.

2. Special Condition for Safe Use

2.1 Following products are covered by this certificate.

DK a / b / c / L /A

a : 32, 34

b : RE, RA

c : K1min, K1max, K2

2.2 The suffix "X" denotes

2.2.1 Only proximity switch typed SC2-NO-Y or SJ2-SN or SJ2-S1N from Germany PEPPERL+FUCHScould be installed in this all-metal Miniature Flowmeter.

2.2.2 The rated voltage of the proximity switch is 20V. External provision should be made to protect the power supply exceeding 40% of the rated voltage of the apparatus.

2.3 The relation among temperature class, ambient temperature and maximum temperature of process medium is as following.

Temperature Code	Ambient temperature	Maximum temperature of process Medium	
		DK32 Series	DK34 Series
T6	(-20～+40) ℃	75℃	80℃
T6	(-20～+50) ℃	70℃	70℃
T5	(-20～+40) ℃	100℃	100℃
T5	(-20～+50) ℃	95℃	100℃
T5	(-20～+60) ℃	85℃	90℃
T4	(-20～+40) ℃	135℃	135℃
T4	(-20～+50) ℃	130℃	135℃
T4	(-20～+60) ℃	120℃	130℃
T1～T3	(-20～+40) ℃	135℃	150℃
T1～T3	(-20～+50) ℃	130℃	140℃
T1～T3	(-20～+60) ℃	120℃	130℃

2.4 End users is not permitted to change any components insides.

2.5 When installation, use and maintenance of All-metal Miniature Flowmeter, observe following standards

GB3836.13-1997 "Electrical apparatus for explosive gas atmospheres Part 13:Repair and overhaul for apparatus used in explosive gas atmospheres"

GB3836.15-2000 "Electrical apparatus for explosive gas atmospheres Part 15:Electrical installations in hazardous area (other than mines)"

GB50257-1996 "Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering"

3. Manufacturer's Resposibility

3.1 Special condition for safe use specified above should be included in the instruction manual.

3.2 Manufacturing should be done according to the documentation approved by NEPSI.

3.3 Any modification with influence on the type of protection should be submitted to NEPSI before application.

3.4 Following items should be added to the nameplate

a) NEPSI logo 

b) Ex marking

c) Number of certificate

d) Ambient temperature range

National Supervision and Inspection Center

for Explosion Protection and Safety of Instrumentation

June 14, 2007