

EC-DECLARATION OF CONFORMITY

Klay Instruments B.V.

Nijverheidsweg 5, 7991 CZ Dwingeloo, The Netherlands

Certify that the equipment intended for use in potentially explosive atmospheres, only new products, indicated here after:

Electronic Pressure- and Level Transmitters
Series 2000-SAN, 2000, CER-2000
Series 2000-Hydrobar-cable, 2000-Hydrobar-EXTD, Hydrobar-I

Are in accordance with:

- directive 94/9/EC of 23 march 1994 (equipment and protective systems intended for use in potentially explosive atmospheres).
- Directive 89/336/EEC of 03 may 1989 (Electro Magnetic Compatibility).
- Harmonized standards:
 - EN 50014: 1997 (General rules)
 - EN 50020: 2002 (Intrinsic safety "i")
 - EN 50284: 1999 (Group II cat. 1G requirements)
 - EN 50281-1-1: 1998 (Group II cat 1D requirements)
 - IEC 61000-6-2: 2001 (EMC, Immunity in industrial location)
 - IEC 61000-6-3: 2001 (EMC, Emission in industrial location)
 - IEC 61000-6-4: 2001 (EMC, Emission in industrial location)
 - NEN-EN 13980: 2002 (Potentially explosive atmospheres – Application of quality systems

- The type (protection mode "ia") which has been the subject of;

EC-type Examination Certificate Numbers:

KEMA 03 ATEX1092 X

delivered by the KEMA, Utrechtseweg 310, 6812 AR Arnhem, The Netherlands, notified body Nr. 0344, Manufacturing plant in Dwingeloo which has been the subject of;

Production Quality Assurance Notification Nr.:

KEMA 03 ATEX Q3189

delivered by the KEMA, Utrechtseweg 310, 6812 AR Arnhem, The Netherlands, notified body Nr. 0344

- Audit report nr: 2094306-QUA/Ex issued 27 October 2006

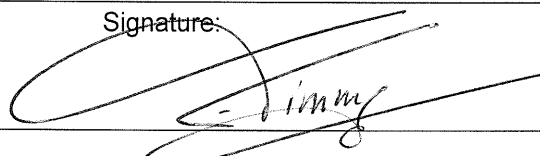
Date: November 1st, 2006

E. Timmer

Managing Director

Klay Instruments B.V.

Signature:



The marking of the equipment for gasgroup is as follows:

II 1G EEx ia IIC T4

The marking of the equipment for dustgroup is as follows:

II 1 GD EEx ia IIC T4 T 100 °C IP 6X

- "II" means that the equipment has been built for use in surface industries (and not in mines endangered by firedamp).
- "1" equipment for use in Zone 0 (if G), Zone 20 (if D)
- "G" equipment for use with gas, vapours or mists
- "D" equipment for use with dust
- "EEx" equipment in compliance with European standards for explosive atmospheres
- "ia" equipment in compliance with specific building rules for intrinsically safe equipment
- "C" equipment for use with gas of subdivision C
- "T4" equipment whose surface temperature does not exceed 135°C when used in an ambient temperature < 70 °C.
- 100 °C maximum surface temperature of the equipment covered with a dust layer of 5 mm
- "IP6X" equipment with Ingress Protection (IP) dust tight

Protection Grade, Series 8000-SAN, 8000, CER-8000, **IP 65**

Protection Grade, Series 2000-SAN, 2000, CER-2000, **IP 66**

Protection Grade, Series Hydrobar-cable, Hydrobar-EXTD, , **IP 65**

The Hydrobar-FR and all other submersible parts from the Series Hydrobar are IP 68.

Furthermore, whatever the protection mode, only use cable glands with a protection degree of at least IP 66.


Be sure the cable diameter complies with the selected cable gland. Tighten the cable gland in a proper way.

Never forget to mount the covers of the electronics housings in a proper way.

For other technical details, refer to the instruction manuals of the series transmitters.

Markings (Gasgroup equipment): Series 2000 * Series 2000 SAN * Series 2000-Hydrobar * Series CER 2000 * Series TT2000 * * (also including option 'I')	KEMA No: 03ATEX1092 X II 1 G EEx ia IIC T4 Ui = 30 V li = 110 mA Pi = 0,83 W Ci = 7,5 nF Li = 73 uH
Markings (Gas/Dust- group equipment): (Option: G100) Series 2000 Series 2000 SAN Series 2000-Hydrobar Series CER 2000 Series TT2000	KEMA No: 03ATEX1092 X II 1 GD EEx ia IIC T4 T 100 °C IP 6X Ui = 30 V li = 110 mA Pi = 0,83 W Ci = 7,5 nF Li = 73 uH
Markings (Gas/Dust- group equipment): Hydrobar I	KEMA No: 03ATEX1092 X II 1 GD EEx ia IIC T4 T 100 °C IP 6X Ui = 30 V li = 110 mA Pi = 0,83 W Ci < 54 nF Li < 173 uH

Special conditions for safe use of equipment with marking:		II 1 G EEx ia IIC T4
Marking applicable to: Series 2000 * Series 2000 SAN * Series 2000-Hydrobar * Series CER 2000 * Series TT2000 * *(also including option 'I') Hydrobar I	Special conditions:	<ul style="list-style-type: none"> * As Category 1 G equipment may be applied directly in the process, electrostatic discharge from the cable and the protection cap of 'Series 2000-Hydrobar-Cable' and 'Hydrobar I' by the flow of non conductive media (e.g. in stirring vessels or pipes) shall be avoided. * The ambienttemperature range for this equipment is -20 °C to 70 °C, except for devices with option 'I' (transparent cover for local indicator). For these devices the temperature range of -10 °C to 70 °C is valid.
Special conditions for safe use of equipment with marking: (Option: G100)		II 1 GD EEx ia IIC T4 T 100 °C IP 6X
Marking applicable to: Series 2000 Series 2000 SAN Series 2000-Hydrobar Series CER 2000 Series TT2000 Hydrobar I	Special conditions:	<ul style="list-style-type: none"> * As Category 1 G equipment may be applied directly in the process, electrostatic discharge from the cable and the protection cap of 'Series 2000-Hydrobar-Cable' and 'Hydrobar I' by the flow of non conductive media (e.g. in stirring vessels or pipes) shall be avoided. * The ambienttemperature range for this equipment is -20 °C to 70 °C. * For use in a potentially explosive atmosphere caused by air/dust mixtures the following should be taken into consideration: <ul style="list-style-type: none"> - the dust layer may not exceed a thickness of 5 mm. - as standard a transmitter is supplied with a certified cable gland (PG9). When using a different gland make sure it is certified. - always use the covers supplied by Klay Instruments b.v. - the free end of the permanently connected cable of the Hydrobar I must be connected out-side the hazardous area or, when inside the hazardous area, in an enclosure accordance with the requirements of the type of protection applied.

 KLAY INSTRUMENTS B.V.			
Nijverheidsweg 5	7991 CZ Dwingeloo	Tel.: +31 521 591550	The Netherlands
P.O. Box 13	7991 AA Dwingeloo	Fax.: +31 521 592046	e-mail: info@klay.nl