

# IA - CERTIFICATE



## SA Explosion Prevention CC

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT INCORPORATED IN THE MINE HEALTH AND SAFETY ACT) AND REGULATION 8(2) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT



03 December 2008

Hi-G-Tek Ltd  
16 Hacharoshet Street  
New Industrial Zone  
Or-Jehuda  
60375  
ISRAEL

**IA CERTIFICATE: SAEx S/08-482**  
**Lock, Hatch and Valve Data Seal**  
(INTRINSICALLY SAFE)

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**Expiry Date: 30 December 2009 (Annual Review)**

### DESCRIPTION:

This IA certificate is based on certificate No. DEMKO 07 ATEX 0621521 and must be read in conjunction with the said ATEX certificate.

The lock, hatch and valve data seals are devices that monitor the open or closed state of locks, hatches and valves. The devices send a RF signal to a unit in the safe area containing information on the state of the equipment which it is monitoring. The devices are included in a combined stainless steel and plastic enclosure with an IP20 rating. The devices are powered from a non rechargeable 3,7 V sealed, gas tight lithium-thionyl chloride battery.

### Safety Parameters:

None

### MARKING:

Manufacturer	:	Hi-G-Tek Ltd
Supplier	:	Hi-G-Tek Ltd
Model	:	IG-LK-433, IG-FL-433, IG-FLH-433
Ex rating	:	EEx ia IIB T4 (-20°C=T <sub>amb</sub> =70°C)
Serial No	:	(all serial Nos. imported into South Africa up to 30 December 2009)
*IA No	:	SAEx S/08-482

\* In addition to the original marking, the SAEx IA number must be applied on each unit in a visible, legible and indelible manner.

### X - Special conditions of safe use:

None

**Compliance:** The units as described above and in Certificate No DEMKO 07 ATEX 0621521 is hereby certified "Explosion Protected" Ex ia IIB T4 (-20°C=T<sub>a</sub>=+70°C) and is suitable for use in hazardous locations as stated below, as determined during assessments of the DEMKO certificate and in accordance with the relevant requirements of equivalent SANS Standards:

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## IA CERTIFICATE: SAEx S/08-482 Lock, Hatch and Valve Data Seal

- SANS (IEC) 60079-0 : 2005 (Edition 4.0) "General Requirements";
- SANS (IEC) 60079-11 : 1999 (Edition 4) "Intrinsic Safety 'i'";

Locations	Zone 0 and 1	Surface
Hazardous Frequency		Continuous as could occur under normal operations
Environment	Group IIB	Ethylene
Limiting Temperature	T4	135°C
Ambient Temperature	-20°C to +70°C	

***The use of the apparatus in hazardous locations is subject to the following provision, which shall be adhered to:***

- i) SANS 10086 requirements;
- ii) Any relevant requirements of the MHS Act or the OHS Act;
- iii) Codes of Practice enforced in terms of Regulations 21.17/2 of the Minerals Act, by the Chief Inspector of Mines;
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines, Principal Inspector (Group I equipment) or Chief Inspector of Factories (Group II equipment); and

**Conditions of certification:**

1. This certificate covers all units sold in South Africa from the date of this certificate to 30 December 2009.
2. The apparatus must be additionally marked in a clear, legible, visible and indelible manner with the SAEx IA number.
3. This certificate of approval only covers the equipment as certified above and does not include any scheduled additions or variations/amendments/new issues to the certificates, made after the above date.
4. The equipment does not need to be retested when used on the conditions and with such restrictions as prescribed by DEMKO and in certificate DEMKO 07 ATEX 0621521.
5. The DEMKO certification must remain valid.
6. The requirements in the ARP 0108 (or regulations) and SANS 10108 do not change.
7. The Ex quality assurance notification for the equipment remains valid.



**WA de Beer Pr Eng.  
Specialist Engineer  
SA EXPLOSION PREVENTION**

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