

April 25, 2007

Attn:  
Federal Communications Commission  
Authorization and Evaluation Division

Confidentiality Request regarding application for certification of  
FCC ID: OB6-IGDT44916

Pursuant to Sections 0.457 and 0.459 of the Commission's Rules, we hereby request confidential treatment of information accompanying this application as outlined below:

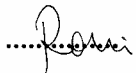
- IG-DT-44-916 Data Tag 916 Electrical scheme 47G10080 Confidential Schem.pdf
- IG-DT-44-916 Data Tag 916 Assembly scheme 47G30140 Confidential Schem.pdf
- IG-DT-44-916 Bill of Materials IGDT44916 Confidential PartsList.pdf

The above materials contain trade secrets and proprietary information not customarily released to the public. The public disclosure of these materials may be harmful to the applicant and provide unjustified benefits to its competitors.

Hi-G-Tek Ltd. understands that pursuant to Section 0.457 of the Rules, disclosure of this application and all accompanying documentation will not be made before the date of the Grant for this application.

Thank you,

Roni Cohen  
Manager, Hardware Development



Hi-G-Tek Ltd.  
Wireless Monitoring  
Platform

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16 Hacharoshet Street		
Or-Yehuda, 60375, Israel		
Tel: 03-5339359<sp> Fax: 03-5339225¶		
www.higtek.com ¶		
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DECLARATION

I HEREBY DECLARE THAT THE **AVL READER** MODEL No. :  
IG-AV1-43-433, IG-AV2-43-433

As apart from the Tanker Truck Monitoring System (TTMS)

Complies with the Duty Cycle Requirements of  
EN 300 220-1 v1.3.1 (2000), Section 8.9, Table 14, Class 3

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**Thank you,**

**Roni Cohen**  
**Manager, Hardware Development**

.....*Roni*



Hi-G-Tek Ltd.  
Wireless Monitoring  
Platform

## 1. Description of Transmission Event Format:

The AVL Reader interrogates the sensors over the high-frequency RF channel for their ID, status and user data. It writes information into the sensors and retrieves logged information from the sensors.

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Transmit/Receive at 433.92MHz, FSK modulated with 40KHz deviation and 16KHz data.		
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There are two operational modes of AVL Reader Tx commands:

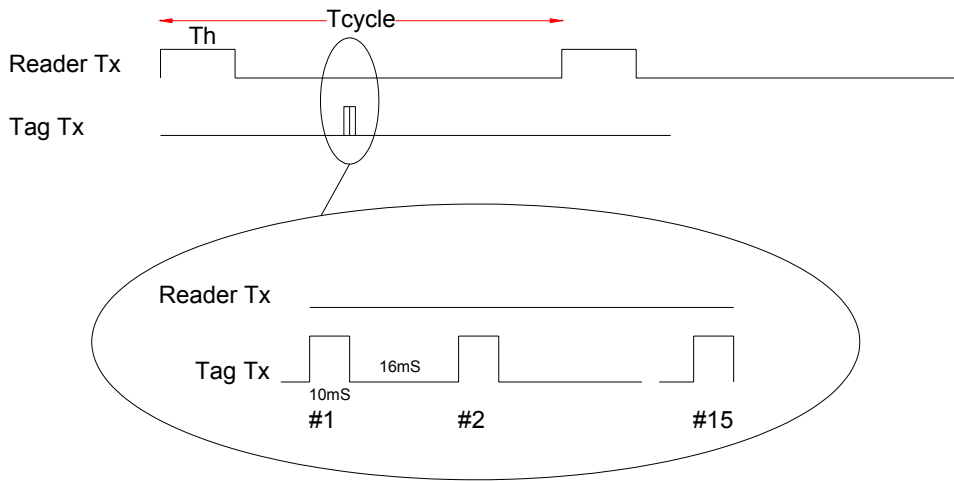
**1.1 Cyclical mode** - tanker sensors (Tags) presence-check: in this mode the tanker sensors (Tags) wait for interrogation command from the AVL Reader in order to replies with data. The communication between the Reader and the sensor is performed continuously.

**1.2 Slave mode**- Interrogation cycle: Tag waits for interrogation command from the AVL Reader and replies with data. In this mode the communication between the AVL Reader and the Tag is performed for a predetermined period and then stops for a relatively long period.

Cyclical mode- Tanker sensors (Tags) presence timing

$$0.38S < T_h < 10S$$

$$T_{cycle} = \text{Max} ( 4S , 10 * T_h + 0.1S )$$




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#### AVL Reader duty cycle calculation:

Min. Tx duration per cycle = 0.38Sec

Tcycle time = 4Sec.

Duty cycle:  $0.38/4 = 9.5\%$

Max. Tx duration per cycle = 10Sec.

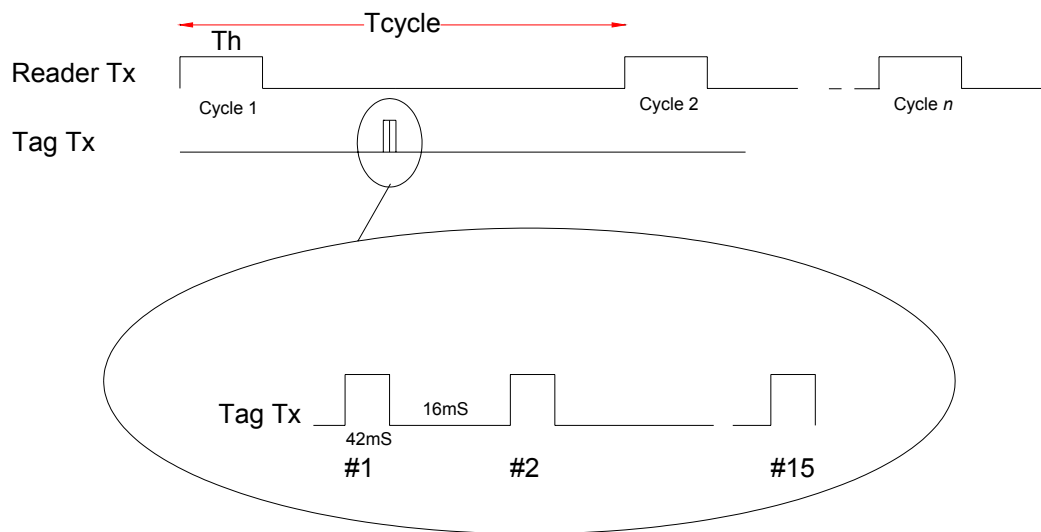
Tcycle time =  $10 * 10 + 0.1\text{Sec} = 100.1\text{Sec}$ .

Duty cycle:  $10/100.1 = 9.9\%$

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#### Slave mode: Interrogation cycle timing:



$$3S < T_h < 16S$$

$$T_{cycle} = T_h + 3.6$$

$$\text{Max No. of cycles per 1 hour } n = 360 / T_h$$

#### AVL Reader duty cycle calculation:

Min. Tx duration per cycle = 3Sec

Tcycle time = 3 + 3.6 = 6.6Sec.

Max. No. of cycles per 1 hour = 360 / 3 = 120

Total Tx duration per 1 hour = 3sec \* 120 = 360 sec.

Duty cycle: 360/3600 = 10%

Max. Tx duration per cycle = 16Sec

Tcycle time = 16 + 3.6 = 19.6Sec.

Max. No. of cycles per 1 hour = 360 / 16 = 22

Total Tx duration per 1 hour = 16sec \* 22 = 352 sec.

Duty cycle: 352/3600 = 9.7%

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