

Newsletter

November, 2021



ICR



Hot Issue

1. ICR Polska Completed Registration of IECEx ExCB Equipment
2. ISO 37001 Anti-bribery Management
3. EN 12895 Industrial trucks – Electromagnetic compatibility

4. Broadcasting communication standard revision enforcement notice



ICR Polska Completed Registration of IECEX ExCB Equipment



- **ICR Polska** has Successfully completed the **IECEX** assessment process and final registration of ExCB according to IECEX Scheme.
- It is now possible to issue certificates for ATEX as well as **IECEX** products, and we plan to provide more service.

OD001 Online

Country: POLAND | Type: ExCB Equipment | Identifier: ICR | Scope Standard: Search by scope...

Search

Organisation	Associated Bodies	Scope
<p>POLAND ICR Polska Sp. Z o.o. ICR Type: ExCB Equipment Contact: Mr. Jaroslaw Zadrozny Plac Przymierza, 6 03-944 Warsaw Poland POLAND Email</p>	<p>Associated ExTLs: ExVÁ Testing Station for Explosion Proof Equipment Company Limited (BKI) - HUNGARY</p>	<p>IEC 60079-0: Part 0: Equipment - General requirements IEC 60079-1: Part 1: Equipment protection by flameproof enclosures 'd' IEC 60079-11: Part 11: Equipment protection by intrinsic safety 'i' IEC 60079-18: Part 18: Equipment protection by encapsulation 'm' IEC 60079-31: Part 31: Equipment dust ignition protection by enclosure 't'</p>

■ Application structure and Equipment

- ▶ Flameproof enclosure "d" , Dust ignition protection by enclosure "t"
(Motor, Enclosure, Luminaires, Solenoid valve)
- ▶ Intrinsic safety "i"(transmitter, Sensor, Mobile device)
- ▶ Encapsulation "m" (Motor, Solenoid valve, Power supply device)

Inquiries

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ISO 37001 Anti-bribery Management systems



■ About ISO 37001 Anti-bribery Management

ISO 37001:2016 is **the new international standard** designed to help organizations implement an Anti-bribery Management System (ABMS). ISO 37001 also follows the common ISO structure for management system standards, for easy integration with ISO 9001.

■ Effect of the introduction of ISO 37001

Even if it is conform to anti-bribery management system requirements, the risk of bribery cannot be completely eliminated. However, introducing the standard is helpful to implement reasonable measures to prevent, detect, and respond to bribery.

ISO 37001 Anti-bribery Management systems



- Currently, ICR has completed document assessment for accreditation scheme expansion from the **Korea Accreditation Board(KAB)** to provide the **ISO 37001** anti-bribery management system certification audit service. ICR is committed to providing the certification audit services within this year.



 **Inquiries**

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EN 12895

Industrial trucks – Electromagnetic compatibility

- Industrial trucks such as Lift Carrier and AGV are essential in industrial environments.



- **EN 12895** is a specification to ensure that industrial trucks have adequate immunity to external electromagnetic when using electronic devices in areas where these industrial trucks are used and to meet the standard for electromagnetic emitted from industrial trucks.

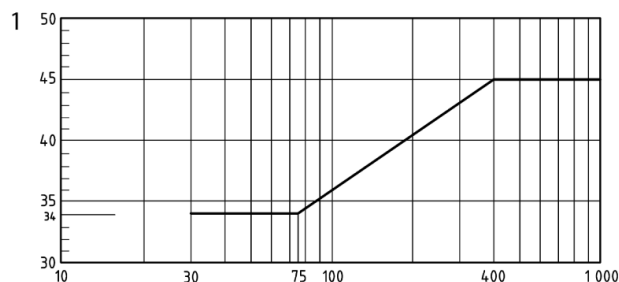
EN 12895

Industrial trucks – Electromagnetic compatibility

■ Emission

In the case of electromagnetic disturbances in industrial trucks, radiated emission are to be measured. It should be measured with an antenna with a height of 3 m at a distance of 10 m.

The table and figure below explain the criteria for radiated emission of industrial trucks.



Frequency (MHz)	Limit (dB μ V/m)
30 to 75	34
75 to 400	34 to 45
400 to 1 000	45

2



< Electromagnetic disturbances test >



EN 12895

Industrial trucks – Electromagnetic compatibility

■ Immunity

In the case of electromagnetic immunity of industrial trucks, the tests specified in the table below must be performed.

1. Truck					
1.1	Electromagnetic field: - Frequency - Strength - Amplitude modulated	27 - 1 000 20 80	MHz V/m (unmodulated,rms) % AM (1 kHz)	EN 61000-4-3	5.3
1.2	Electromagnetic field: - Frequency - Strength - Amplitude modulated	>1,0 - 2,0 3 80	GHz V/m (unmodulated,rms) % AM (1 kHz)	EN 61000-4-3	5.3
1.3	Electromagnetic field: - Frequency - Strength - Amplitude modulated	> 2,0 - 2,7 1 80	GHz V/m (unmodulated,rms) % AM (1 kHz)	EN 61000-4-3	5.3
1.4	Electrostatic discharge: - Charge voltage	8 Contact 15 Air discharge	kV (330Ω - 150pF)	EN 61000-4-2 (Level 4)	5.4
2. Components test					
2.1	Magnetic field: - Frequency - Time period - Strength	0 3 1 000	Hz s A/m (1A/m ≈ 1.257 μT)	Test arrangement according to EN 61000-4-8	5.5
2.2	Magnetic field: - Frequency - Time period - Strength	50 3 30	Hz s A/m (1A/m ≈ 1.257 μT)	Test arrangement according to EN 61000-4-8	5.5



EN 12895

Industrial trucks – Electromagnetic compatibility

- However, **in the case of the Components test**, a test is conducted on safety relevant components that may be affected by magnetic radiations such as acceleration sensors or lift height sensors and joysticks. These components can be tested separately from industrial trucks.



<Electromagnetic immunity test>

- In ICR, there is a 10 m chamber and an RS chamber that can be tested EN 12895, so you can test it inside the laboratory. If you have any questions about industrial trucks, please contact us.

 **Inquiries**

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Broadcasting communication standard revision enforcement notice



■ 1. Related

- ▶ a. Radio equipment conformity assessment test method (KS X 3123:2021)
- ▶ b. Technical standards for radio equipment for radio stations that can be established without reporting (Ministry of Science and Technology Notice No. 2021-78, 2021.10.8)

■ In order to revise the 920MHz band broadband IoT technology standards and to improve the test procedures, we have prepared the test method standard revision as follows, and we would like to inform you that it will be implemented first before the standard revision for the market launch of newly introduced technology standards-applied

▶ **Standard name** : Radio equipment conformity assessment test method (KS X 3123)

▶ **Major revisions**

- Annex B: Improvement of secondary radio emission test of receiving equipment and currentization of test items
- Annex H: Revision of test method for radio equipment for USN
- Annex L: Improvement of electric field strength test method

▶ **Enforcement Date** : Enforced from devices received after the document enforcement date

▶ **Validity period** : Until completion of national standard revision

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ICRO-31/R20161125 본 문서는 법률 제 14088호 저작권법의 보호대상이며, ICR의 지적 자산으로 불법 편집 및 복사를 금합니다.

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