

ATEX / Cenelec



What is ATEX ?

- **ATEX: ATmospheres EXplosibles (Directive 94/9/EC)**
 - Introduced under Article 100a of the Treaty of Rome
 - Single European market in goods and services
 - For mechanical and electrical equipment and protective systems intended for use in **potentially explosive atmospheres**
 - Under ground
 - On surface
 - Provides Essential Health and Safety Requirements (EHSRs)
- **Mandatory in EU and EFTA countries from 1st July 2003 on**
 - Replaces existing directives in EU
 - Cenelec
 - Factory Mutual (FM)

Country specific interpretation of Directives may be subject to change

Impact on Motorola products

- **Up-revision of EN50020 and EN50014**
 - EN50020/EN50014 define requirements for IS (Intrinsically Safe) products e.g. GP900 Cenelec)
 - Reduction of max. circuitry capacitance
 - ⇒ Other protection class
 - New electrostatic requirements
 - ⇒ Usage of a leather case

- **Re-approval at BASEEFA**



II 2 G

EEx ib IIB T4

Approval no.: BASEEFA 02 ATEX 0121
(preliminarily)

Group	I Mining II other (chemical industry, refineries...)
Zone	0 ignitable atmosphere often 1 ignitable atmosphere sometimes 2 ignitable atmosphere seldom
Sector	G Gas D Dust


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Impact on Motorola products

➤ **GP900 /GP1200 /MTS2000 Cenelec EEx ib IIC T4**

- Equipment placed on the market before 1st July 2003 doesn't need to comply to ATEX and retain their original classification
- Last time buy opportunity by 17th May 2003
- Delivery by 30. June 2003
- Products to be supported in service with replacement batteries, accessories and parts after 1st July 2003

➤ **GP900 / GP1200 / MTS 2000**

- ATEX approval by 30th June 2003
- Protection class  II 2 G EEx ib **IIB** T4
- No mechanical and electrical changes
- Use of leather carry case mandatory

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Cenelec / ATEX Certification

Max. Temperature

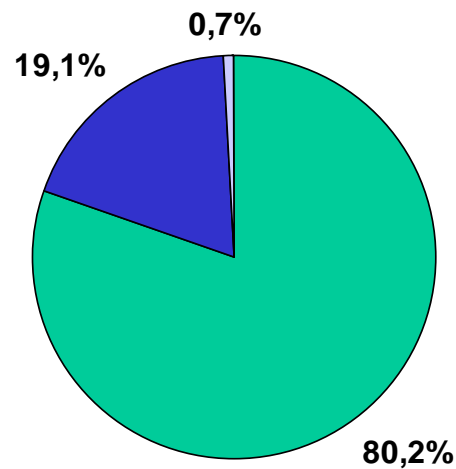
	T1: 450°C	T2: 300°C	T3: 200°C	T4: 135°C	T5: 100°C	T6: 85°C
I	Methane					
IIA	Acetone	Ethyl alcohol	Benzine	Acetaldehyde		
	Ethane	Isamyl acetate	Diesel fuel	Ethyl ether		
	Ethyl acetate	n-butane	Aircraft fuel			
	Ammonia	n-butyl alcohol	Heating Oil			
	Benzene (pure)		n-hexane			
	Acetic acid					
	Carbon Monoxide					
	Methanol					
	Propane					
	Toluene					
IIB	Town Gas (Coal Gas)	Ethylene				
IIC	Hydrogen	Acetylene			Carbon disulphide	Ethyl nitrate

(higher classes cover lower classes)

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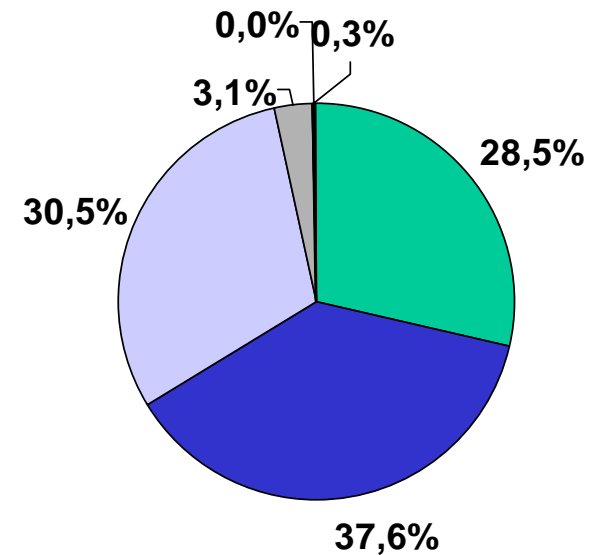
Applications in Gas Group II

Gas Group



■ IIA ■ IIB ■ IIC

Temperature



■ T1 ■ T2 ■ T3 ■ T4 ■ T5 ■ T6

Source: Günter Kämper VDI

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FAQ's (1)

- **Can I buy Cenelec or FM Radios in EU/EFTA countries after 30. June 2003 ?**
 - ⇒ **NO.** Exception: For use on seagoing vessels, mobile offshore units or export to non-EU/EFTA countries.
- **Where can I find further information on ATEX ?**
 - ⇒ <http://europe.eu.int/comm/enterprise/atex/index.htm>
- **What is the price for the new ATEX radios ?**
 - ⇒ Same price as Cenelec radios.
(Radio package will contain leather case instead of belt clip)

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FAQ's (2)

- **What can I do, if protection class EEx ib IIC T4 is required ?**
 - ⇒ Last Time Buy of Cenelec Radios by 17. May 2003
(Delivery to dealer/distributor by 30. June 2003)
- **How do we support customers requesting FM radios ?**
 - ⇒ Last Time Buy of FM Radios by 17. May 2003
(Delivery to dealer/distributor by 30. June 2003)
- **Is the dealer/distributor allowed to sell radios from stock after 30. June 2003 ?**
 - ⇒ Yes. (see <http://europe.eu.int/comm/enterprise/atex/index.htm>)

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FAQ's (3)

- **Is it allowed to use Cenelec approved accessories on ATEX Radios ?**
 - ⇒ No. Motorola will offer ATEX approved accessories.
- **How can I identify an ATEX product ?**
 - ⇒ ATEX products carry ATEX labels
 - ⇒ Different item numbers (if necessary)

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