

◇ ATEX and IECEx approval



The following transceivers and accessories are approved by ATEX and IECEx. The certification number is printed on the label, which is attached to the transceiver, and printed on the battery pack, speaker-microphone and battery charger. Only the transceiver antennas and accessories listed in the table below can be used:

• Usable item list

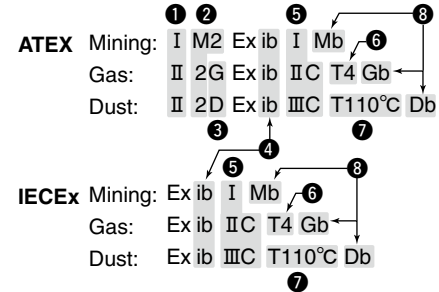
| Type of the product | Model name |
|---------------------|--|
| Transceiver | VHF FM Transceiver: IC-F3202DEX, IC-F3203DEX |
| | UHF FM Transceiver: IC-F4202DEX, IC-F4203DEX |
| Li-ion Battery Pack | BP-277EX |
| Belt Clip | MB-94EX |
| Speaker-Microphone | HM-203EX |
| Antenna | FA-SC25V, FA-SC55V, FA-SC25U, FA-SC57U, FA-SC72U, FA-SC01U |
| Battery Charger | BC-212EX |

◇ Ex- CERTIFICATION DATA

- Operating temperature range: -20°C to +55°C
- Ambient temperature range during charging:
+10°C to +40°C
- RF power output: Less than 2 W (limit for gas group IIC of IEC 60079-0)
- Battery: 7.4 V (Minimum 1800 mAh
Um 8.75 V (BP-277EX))

- Certificate numbers:
IECEX IECEX DEK 14.0021
ATEX DEKRA 14ATEX0061
- Applicable standards:
IECEX IEC 60079-0:2011/IEC 60079-11:2011
ATEX EN 60079-0:2012/EN 60079-11:2012

◇ Explosion protection marking and meaning



① Equipment group

- I: Mining
- II: All other explosive areas

② Equipment category

- M2: Mining (must be switched OFF in case of firedamp)
- 2: Can be used in Zone 1 (gas) or 21 (dust)

③ Atmosphere

- G: Gas
- D: Dust

④ Protection type

- ib: Intrinsic safety

⑤ Explosion group

- I: Methane (mining)
- IIC: Acetylene, Hydrogen
- IIIC: Dust (Conductive $R \leq 10^3 \Omega m$)

⑥ Temperature classes

- T4: 135°C

⑦ Maximum surface temperature

- T110°C

⑧ Equipment protection Level

- Mb, Gb, Db

*MFD is the manufactured year of the product.

◇ Important Safety Information

This manual contains safety information and recommendations that must be complied with in order to guarantee the safe function of the transceiver under conditions recommended by Icom. Non compliance with these safety recommendations and instructions may have dangerous consequences, infringe regulations or void the safety certification.

Please read this manual very carefully before using the transceiver

Before operating this transceiver in a location where hazardous concentrations of flammable materials exist, users are advised to be familiar with the subject of intrinsic safety.

◇ SAFETY REGULATIONS

When using the transceiver, the user is required to follow the usual safety advice to prevent any dangerously unsafe situations.

DO NOT use the transceiver with any other equipment not listed in the "Usable item list." An explosion or fire may result.

DO NOT use the equipment in mining M1: Zone 0 or Zone 20.

DO NOT open or disassemble the transceiver in a hazardous atmosphere. An explosion or fire may result.

The specified Icom battery pack, BP-277EX, **MUST** be used with this approved transceiver in specified hazardous locations. Any other battery pack may cause an explosion or fire.

DO NOT use the transceiver with battery packs, accessories or options in a hazardous atmosphere if they have been physically damaged. An explosion or fire may result.

The battery pack must only be charged in areas known to be non-hazardous. (To prevent ignition within a hazardous atmosphere.)

The battery charger, BC-212EX, is an ATEX/IECEx approved product but **SHOULD NOT** to be brought into or used in hazardous locations. Use only the battery charger specified by Icom (it must conform with Um =8.75 V).

DO NOT connect other equipment or apparatus not approved for zones. This will void the approval rating of the transceiver.

DO NOT disassemble an ATEX/IECEx approved intrinsically safe product in any way that exposes the internal circuits.

DO NOT repair or modify an ATEX/IECEx approved product in any way that will void the approval rating of the product.

DO NOT modify the labels attached to the transceiver, battery or accessories, or relabel the transceiver. This action may affect the approval rating of the transceiver and result in a dangerously unsafe condition.

DO NOT attempt to repair the transceiver or accessories. This may impair and therefore void the intrinsic safety rating. ATEX/IECEx approved products may be repaired only by an ATEX/IECEx approved, Icom designated authorized service center.

The transceiver and battery pack are not repairable. The transceiver and battery pack must be recycled or otherwise safely disposed in accordance with local regulations.

DO NOT use the transceiver in environments for which it has not been class certified.

When the transceiver is used in hazardous areas, either the jack cover or speaker-microphone must be attached to the connector. Failure to do this will make the transceiver ATEX/IECEx non-compliant and may result in an accident during use in hazardous areas.