

# Hazardous areas

Application note ANM4040

## Safety in hazardous locations

The hazardous area module is ideal if you have equipment in potentially flammable atmospheres.

Mantra helps you ensure that your equipment is always kept in safe condition, with proper records of all your inspection and maintenance always to hand.

Mantra gives you the flexibility to work the way your organisation demands - but without the worry that vital jobs may be overlooked.

## International

Mantra includes IECEx, North American, European ATEX and older standards such as CENELEC – so you can record old and new equipment details as well as variations used in individual territories.

## Validated records

Classification details of locations and equipment are entered from the choices shown on screen to ensure that your data is stored in a valid form.

## Jobsheets and reports

Location and equipment details are shown on jobsheets and warnings are automatically issued if the equipment must be electrically isolated before starting work.

Mantra's report generator includes a full set of commands which enable hazardous area details to be included in reports and jobsheets.

## What you need

You need to add the Hazardous Area module to the standard Mantra maintenance management software - go to [www.bmstech.com/mantra/products.htm](http://www.bmstech.com/mantra/products.htm)

## Location classifications

Mantra enables you to record location classifications, hazard types, temperature requirements, and enclosure requirements - always ensuring that the hazard types (gas or dust) are consistent with the location classifications you have chosen.

Some typical classifications:

IECEx Zone 1 Gb IIB T4 (-20 to +40°C)
North America Class I Div 1 Group D T4A NEMA 7A Class I Zone 0 IIA
CENELEC Zone 0 IIB T4 (-20 to +40°C)
ATEX Zone 21 150°C (-10 to +85°C) IP62
Non-Hazardous

## Equipment details

For each item you can enter its certification, the protection technique(s) it uses, the hazards it is suitable for and its temperature and enclosure ratings - ensuring that details are consistent with the certification type. For example:

IECEx Ex d [ia Ga] Gb IIC T4
North America Class I Div 1 Group D Explosion Proof Class I Zone 0 IIB AEx ia
CENELEC EEx ia IIC T4 (-20 to +40°C) IP64
ATEX ATEX I M2 IIB T1 (-10 to +85°C)

## Mantra

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## See also

Plant management  
ANM4000

Asset register  
ANM4020

Job control  
ANM4030

Job tracking  
ANM4031

