



COMMUNICATIONS IN HAZARDOUS CLASSIFIED LOCATIONS

ATEX Designation

Device Group
I = mining
II = all other areas

Atmosphere
G = gas
D = dust

Type of ignition protection
ia = power limiting (zone 0)
ib = power limiting (zones 1&2)

Temperature classes

T1 = 450° C
T2 = 300° C
T3 = 200° C
T4 = 135° C
T5 = 100° C
T6 = 85° C

Max. surface temperature



II 1 GD EEx ib IIC T4 T60° IP5x

Category
1 = zones 0 or 20
2 = zones 1 or 21
3 = zones 2 or 22
M1 = mining (zones 0&1)
M2 = mining (zones 2)

Conforms to European Ex-standards
(i.e. EN50XXX)

Explosion group
I = methane (mining)
IIA
IIB
IIC = most dangerous group (incl. hydrogen)

IP Code
1st numeral - dust
5 = dust deposits
6 = dust penetration
2nd numeral - water
0 = no protection
1 = vertical water drip
2 = 15° water drip
3 = water spray
4 = water splash
5 = water jet
6 = strong water jet
7 = temporary immersion
8 = continual immersion



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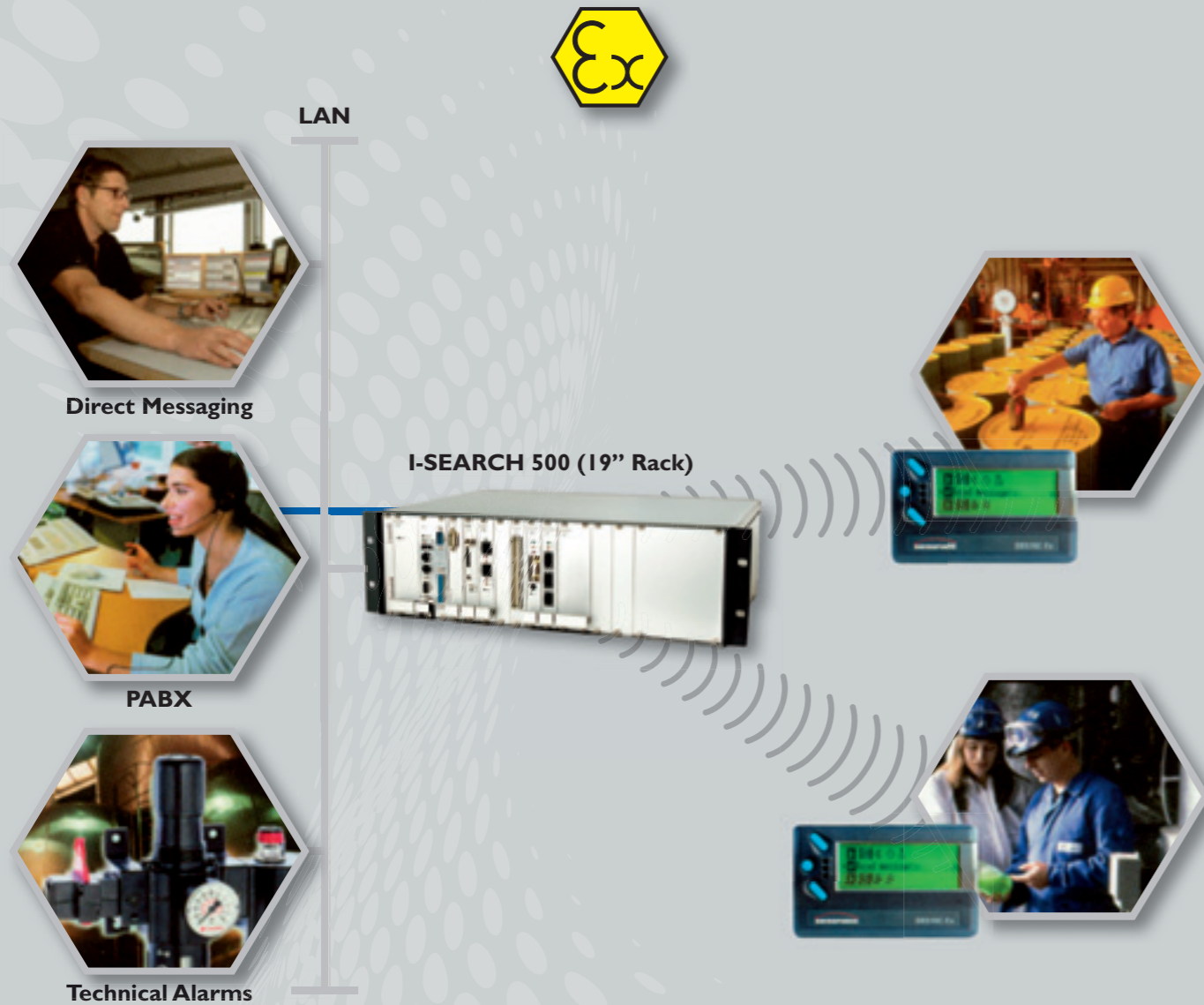


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ATEX Digital Communication System



Mobile communication with ATEX approval

In explosive risk areas, communication must meet increasingly severe requirements. The increased protection of capital goods and employees is indispensable in this regard. As a result, the new ATEX standard regulates activities in hazardous areas. Novelradio offers a communication solution that meets the challenge of this extensive set of specifications.

Advantages for you:

- Fulfills requirements of the ATEX standard
- Standardized transmission protocol (POCSAG)
- Transmission within seconds
- No calling charges (subscription and registration costs)
- Easy integration in the existing infrastructure
- Can be expanded individually
- Easy to maintain

Radio Communication System using ATEX terminals



Novelradio designs and implements PMR-ATEX radiocommunication systems / radio / pagers for naval and terrestrial applications, moreover can offer to the customers wide range of services, including maintenance of products of main worldwide manufacturers.



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