PEX7250
Explosion Proof Alarm Annunciator

For total programmability in hazardous areas

Suitable for use in Zone 1 and Zone 2 Hazardous areas

Certified Ex d IIB + H_2 T100ºC/T85ºC

Ultra-bright LED illumination as standard

Multi-redundant design (ensuring no single point can cause failure)

Fully field programmable for all standard ISA sequences plus a range of options

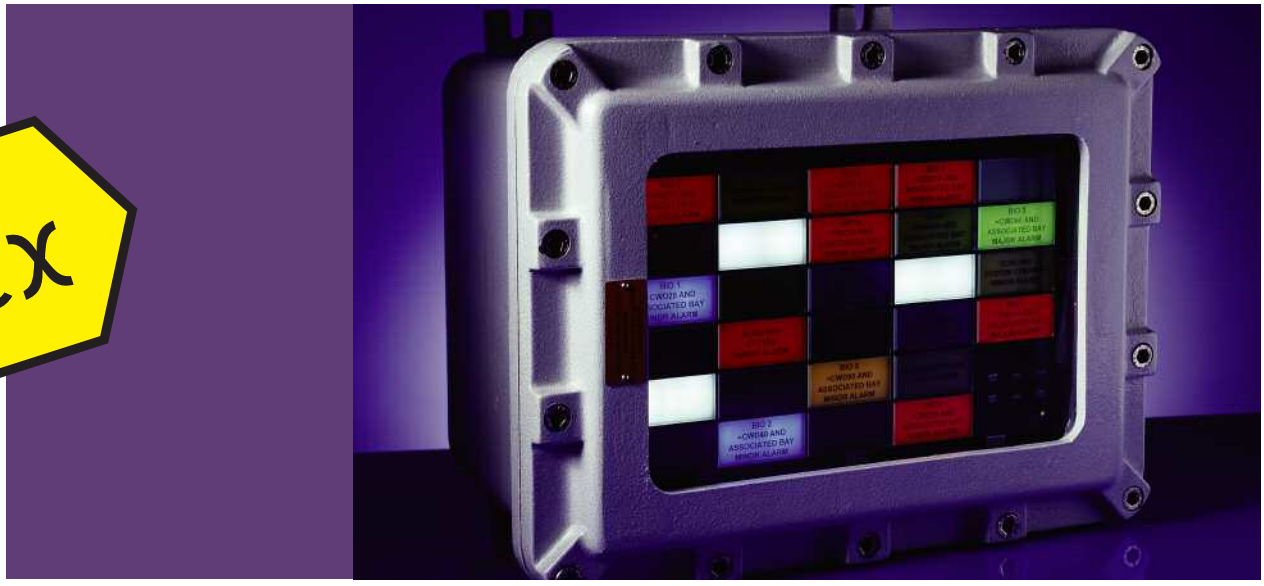
IEC61508 certified version to SIL2 level

Options include; Horn and Group Relays, Repeat relays per channel, RS485 communications

The PEX7250 Explosion Proof Alarm Annunciator offers a vast range of features and benefits normally reserved for use in safe area annunciators only. The heart of the system is one of our field proven Alarm Annunciators; the 725 Series, 725B/C or the SIL725. These are available in three different window sizes depending on the model choice, these are 30 x 30mm, 60 x 30mm or 60 x 60mm.

Reliability of the system is vastly improved over conventional systems using our multi-redundant Annunciator designs, removing any reliance on common control cards.
The standard enclosure is copper-free aluminium alloy, finished in a light grey epoxy paint, making it ideal for offshore applications.

Systems are available in a range of formats and sizes and are certified for use in Zone 1 hazardous areas. All systems are automatically covered by our standard 5-Year Warranty.



Technical Specification

Certification
ATEX certified to EN60079-0:2006, EN60079-1:2004, EN61241-0:2006, EN61241-1:2004
Group II, Category 2 GD, Ex d IIB H_2,
Ex tD A21 IP65
T212ºF (100ºC)/185ºF (85ºC)

Location
Zones 1 or 2. Gas Group IIB +H_2 or IIA
Zones 21 or 22. Dust
Temp Class up to
T185ºF (85ºC) for Ta = 104ºF (40ºC)
Temp Class up to
T212ºF (100ºC) for Ta = 131ºF (55ºC)

Certificate No.
Based on CESI00ATEX036U

Number of alarm ways
Systems are available in a range of sizes depending on window size from 1 to 56 points in a single enclosure.

Materials
The Ex d enclosure: copper-free cast alloy. Ex de Control Station and Ex e Terminal Box: GRP

Connections
The annunciator is wired to a row of terminals suitable for wire sizes up to 12 AWG (2.5mm²). On larger systems, the terminals are mounted within an Ex e terminal box below the Ex d enclosure.

Cable Entries
Five M20 cable entries are included as standard. Alternative quantity and size of metric or NPT threads can be provided on request.

Pushbuttons
Test, Accept and Reset are included as standard, additional control pushbuttons can be added as required. These are mounted in an attached, certified Ex de Control Station.

Cover
The cover is hinged as standard, to allow easy access for wiring and commissioning.

Outputs
Units can be equipped with a variety of different outputs for group relays, horn relays, RS485 communications or SIL2 compliant relay outputs. These will depend on the model and variant requested

Environment
Operating temperature
-4 to 104ºF (-20 to 40ºC) for T185ºF (85ºC)
-4 to 131ºF (-20 to 55ºC) for T212ºF (100ºC)
Storage temperature: -4 to 176ºF (-20 to 80ºC)
Humidity: 0-95% RH, non-condensing

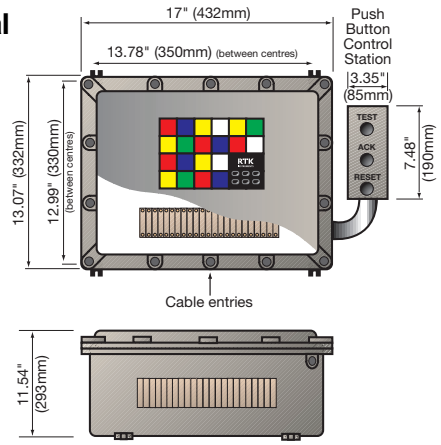
Protection
IP65 as standard, IP66 can be obtained using suitable sealant and gasket.

Detailed Specification
See the relevant datasheet on the particular Annunciator used, either 725 Series, 725B/C or SIL725 for full details on Alarm Annunciator specification

Specials
The details shown here demonstrate our standard range of Ex d IIB Annunciators. RTK Instruments can quote for alternatives and IIC systems on request.

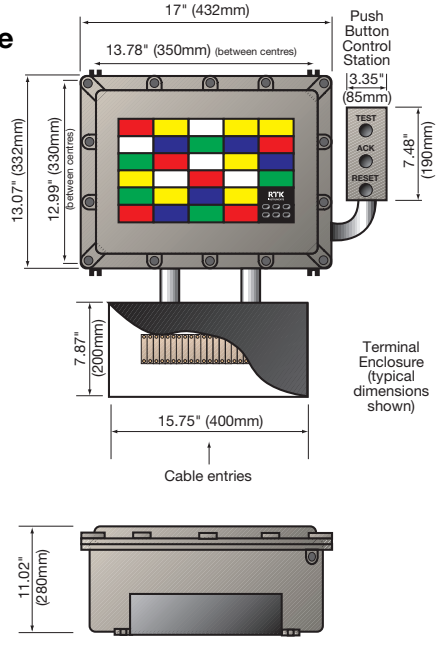
With Integral Terminals

Suitable for 4 to 20 point Annunciators



With Separate Terminal Enclosure

Suitable for 16 to 56 point Annunciators



Due to our policy of continuous product development, we reserve the right to amend specifications without notice.

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