

ATEX CABINETS : CABINET Exp ZONE 1-21

FUNCTION :

Pressurized and purged cabinet intended to receive a PC and its screen for an installation in zones 1 and 21. It is equipped with a keyboard with mouse or touchpad, a purge and pressurization controller, a box of shutdowns of the incoming signals and an air control.

As an option, a wifi antenna, an input for a hand scanner, a remote control box are available.

Floor, wall, table or recessed mounting.

Made of painted steel, in 304L or 316L stainless steel, blasted or painted.

You can install your CPU and your screen. This is an advantage because you are no longer dependent on imposed equipment and you can replace it at any time without touching the certification of your cabinet

Screen of 15, 17, 19 or 21". Vertical or horizontal central units.



CONTROL OF PURGE AND SURPRESSION :

This controller is mounted hard cabinet to proceed to purge in a first time.

Cross flow control is performed.

Coupled with proportional solenoid valve, this controller optimally manages the amount of air to use to perform the function.

Because he works in low pressure (7.5mbar purge) this greatly reduces the structure of the cabinet and therefore its price.

In compensation for leaks, the pressure is reduced and maintained by a PID system at 2.5mbar.

The blue terminal block is used for the bypass control (possibility to open the cabinet without losing its pressure and its safety), possibility to put a door contact (to avoid unintentional or accidental opening), an ON / OFF contact to turn the system on or off.

An additional contact may be used to give an indication that the pressure drops and allow to react before the total cut.



Contrôleur de purge et de pressurisation FS850

REMOTE CONTROL BOX :

It is possible to transfer the controls of the purge controller and pressurization at a maximum distance of 50m by using a BT851 housing. Intrinsically safe, it is connected to the FS850 by a 4-wire 0.75mm² cable.

All the commands of the FS are found on this case and allow the setting as well as the control during operation.



16-contact signal cut-off box

SIGNAL BREAKING HOUSING :

The SR852 relay interface is a non-intrinsic separation of incoming live signals in a pressurized cabinet.

It has 8 or 16 NO contacts that close when the control circuit of the booster controller gives the green light.

The contacts are doubled in series to provide independent to meet the 954-1 standard, category 3.



16-contact signal cut-off box

KEYBOARD (106 membrane keys with 38mm trackball) :

- IP65
- With a 38mm trackball for precise and safe cursor control
- Fully functional keypad with separate keypad and control keys
- Recessed installation in the cabinet with gasket and screws from the inside
- Lexan keyboard on aluminum plate 3mm, electronic under the keyboard in a safe zone in the cabinet Ex-p.
- Available in QWERTY or other versions.
- If external mounting, an Ex-i interface for keyboard and mouse are mounted in the cabinet.



WIFI ANTENNA :

This antenna can be used in Zones 1 or 2 in the presence of flammable vapors or gases, with Group IIA, IIB & IIC devices for all temperature classes. It can also be used in zone 21/22 in the presence of flammable powders with a maximum surface temperature of 60 ° C. The security rules apply. The connection to the electronic equipment is done in an Ex-d cabinet. It can only be used within the indicated temperature range.

Antenna cable : 1.5 meters low losses

Central frequency : 2.4 or 5.7 GHz

Bandwith : +/-100 MHz

Impedance : 50 ohms

Stationary : Less than 1.2

Radiation : Directional omni

Maximum power : 50 continuous watts

Connector : On request

Radiant element : ¼ wave ground plane

Gain : Between 5 and 12dBi frequency function



Wifi antenna