



## APPLICATION:

Protection boxes of SP type are designed to protect instrument process equipments (e.g. transmitter with accessories) mounted in industrial complexes. A boxes protects equipments from mechanical damage, corrosion influence, precipitation, frost and to prohibit access for unauthorized persons.

## Product features:

- Fire resistant
- Can be made antistatic
- IP65
- Can be used in ex zones
- made from Non-flammable polyester-glass composite
- Can be made with window
- Can be made with lock

## EXPLOSION-PROOF VERSION:

- Electric heaters of 60...200 W power in explosion-proof version
  - Bimetal thermostat, temperature limiters, electronic thermoregulators in explosion-proof version
  - Supply: 230 V / 50 Hz
- The heated area can be the interior space of a cabinet or directly the built-in element (manifolds).

## VERSIONS:

- antistatic
  - with internal thermal insulation
  - with steam heating
  - with electric heating (standard and explosion-proof version)
  - with window
  - with lock
  - with manifolds (1÷5 valves)
- Other versions after agreements.



## CONSTRUCTION:

The standard version of SP protection boxes consists of:

- two-part box made of non-flammable polyester composite reinforced with glass fiber

Accessories (hinges, locks) are made of stainless steel.

The contact area between the two parts is sealed with non-flammable rubber gasket.

- assembly construction adapted for mounting a box in a vertical pipe or a wall.

## ACCESORIES:

- External elements of boxes as: locks, hinges as well as joint elements (screws, rivets) are made of austenitic stainless steel.
- Elements of internal construction are made of galvanized carbon steel.
- Boxes can be equipped with dehydration/deaeration plugs.



## Window:

All types of boxes can be optionally equipped with a window built in a box cover.

Window material: foiled glass

Guaranteed surge resistance: 4J

The window is fitted to a box cover by means of special rubber gasket which guarantee leaktightness.

The dimensions of the windows (including the gasket width) are as follows:

- SP 01 box:  $\varnothing$ 180 mm

- SP 02 box:  $\varnothing$ 180 mm

- SP 11 box: 270 x 200 mm

- SP 12 box: 370 x 200 mm

- SP 13 box: 370 x 200 mm

- SP 14 box:

- SP 22 box: 370 x 370 mm

- SP 33 box: 250 x 250 mm

- SP 34 box:

With the window installed the electric heating power should be increased for about 30%.

## Series:

	Szerokość [mm]	Wysokość [mm]	Głębokość [mm]
Box SP-01	370	335	295
Box SP-02	440	335	295
Box SP-11	420	440	380
Box SP-12	555	440	380
Box SP-13	700	440	380
Box SP-14	900	440	380
Box SP-22	560	645	515
Box SP-33	450	520	520
Box SP-34	700	520	520
Special SP	370...900	335...645	295...520

## Heating:

- STEAM HEATING -

- Heating coil made of galvanized pipe protected by shield

Steam pressure: 0,3 .....0,8 MPa

- ELECTRIC HEATING -

STANDARD VERSION

- Electric heaters of 60...250 W power

- Bimetal thermostat or electronic thermoregulators

- Supply: 230 V / 50 Hz

## MOUNTING CONSTRUCTION:

A boxes mounting construction is made of galvanized carbon steel.

On request, there is a possibility to make the mounting

construction of stainless steel.

In an antistatic version the mounting construction is

galvanically joined with "Grounding" grip.



## WAY OF MARKING AND ORDERING:

TYPE	SP				
- SP-01					
- SP-02					
- SP-11					
- SP-12					
- SP-13					
- SP-14					
- SP-22					
- SP-33					
- SP-34					
<b>TYPE OF MOUNTING</b>					
- on the pipe stand 2" from the bottom					1
- on the pipe stand 2" from the back					2
- to wall vertical bars					3
- to wall horizontal bars					4
- on the double pipe stand from the back					5
<b>HEATING</b>					
- without heating					0
- steam heating					1
- electric heating in standard version					3
- electric heating in explosion-proof version					4
<b>THERMAL INSULATION</b>					
- without insulation					0
- with insulation					1
<b>ENCLOSURE MATERIAL</b>					
- non-flammable (standard)					1
- antistatic version					2
<b>WINDOW</b>					
- without window					0
- with window					1
<b>LOCK</b>					
- without lock					0
- with lock					1