

## INTRINSICALLY SAFE SENSING HEADS DIFFUSION-FLOW WITH FLOW SENSOR TYPE SGp

**NEW  
PRODUCT**

The sensing head type **SGp** is designed to detect and measure the methane concentration in areas of explosion hazard. The electrical parameters, metrological range and area of application are dependent of the head's version. It is foreseen to gasometric apparatus electrical devices groups I and II(CH<sub>4</sub>).



The head with integrated pump and flow sensor enables the measurements in not easily accessible places.

### GENERAL PARAMETERS:

- fulfilling the requirements of harmonized with Directive ATEX standards ( I M1 category, "ia" intrinsic safety mark)
- possibility of diffusion or flow measurement
- electronic circuit of digital measurement signal transmission
- mode of operation programming: continuous, impulsive or automatic
- answer time  $T_{90} < 3s$  – diffusion measurement
- head is made in two versions (with flow sensor, with integrated pump)
- to each head's version is a measure adaptor conformable ( for flow heads with a proper filter and a pipe of 2m length)
- electrical and metrological parameters are dependant of the used pellistors types PC-3x, PC-4x
- some head's dimensions can be adapted to the client's need.

### Notice !!

- there is a possibility to create client' designs in relation to his needs
- there is a possibility of design heads EKP dedicated to group II

### Suggested serial of type's diffusion-flow heads:

Head's type	Digital transmission of measuring signal	Flow sensor	Integrated pump	Foreseen dimensions
SGp – 2x/yz	yes	no	no	ø20 x 20 mm
SGp – 3x/yz	yes	no	yes	ø20 x 70 mm
SGp – 4x/yz	yes	yes	yes	ø20 x 70 mm

where: x - type of used pellistors y, z – metrological range

In order to receive additional information and cooperation in scope of heads' designing, construction examinations etc. you are asked to contact our establishment.