



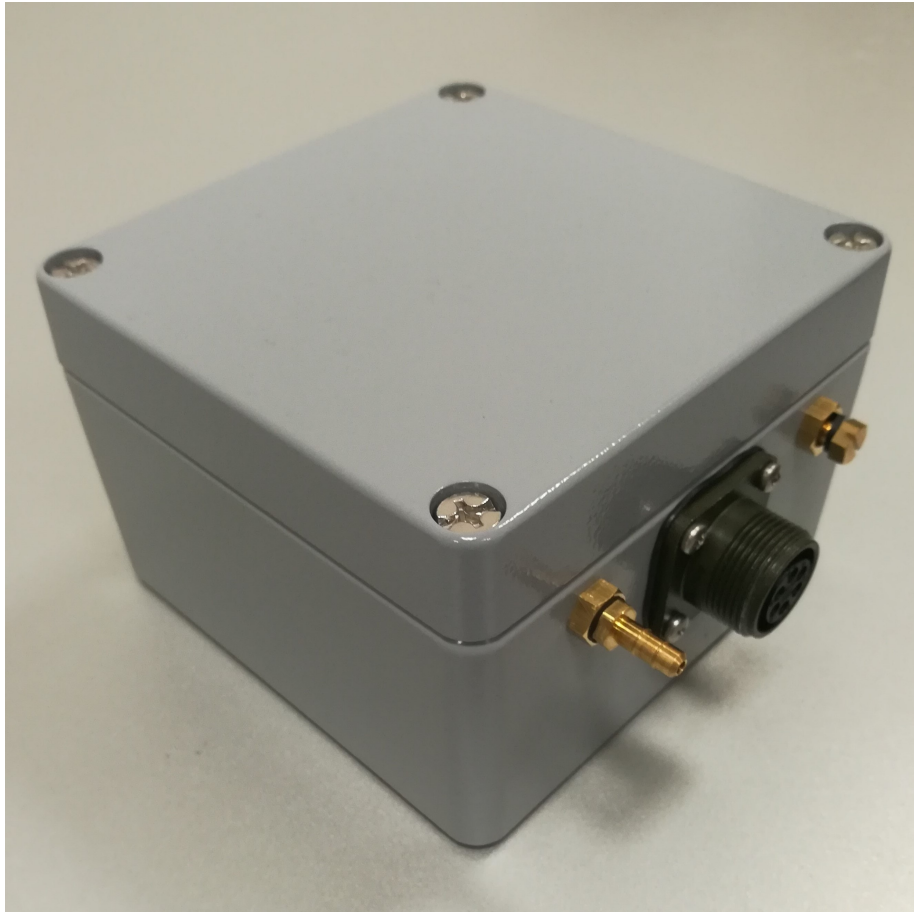
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SPIN-OFF APPROVATO

Integrated Technologies for Environmental Monitoring

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## ***Prs0025a Datasheet***

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## Features

The Item-prs series infrasonic sensors are based on differential pressure transducers specifically adapted for efficient field deployment.

The Item-prs series infrasonic sensors are differential pressure transducers measuring air pressure fluctuations with respect to the pressure in the backing volume. Within the backing volume a capillary is mounted that acts as leak back to the atmosphere. The acoustic resistance of the capillary determines the lowest frequency the micro-barometer can measure, longer term fluctuations are compensated by the capillary.

## Sensor Specification

### Sensitivity

800 mv/Pa, 25 Pa full scale range

### Output

Analogue Differential Output : -10,+10 V  
Frequency Response: 0.04-100 Hz -3dB @0.04 Hz  
Self Noise: < -55 dB rel to 1 Pa

### Power and Case

Power Supply: 9-18 V DC  
Current: < 50 mA @ 12.5 V  
Operating Temperature: -25 - 85 °C  
Dimensions: 122 x 120 (+ inlets ) x 80mm  
Weight: 1.27 kg  
Case: Aluminium