

# Digital Barometer

## PS-0060-AD

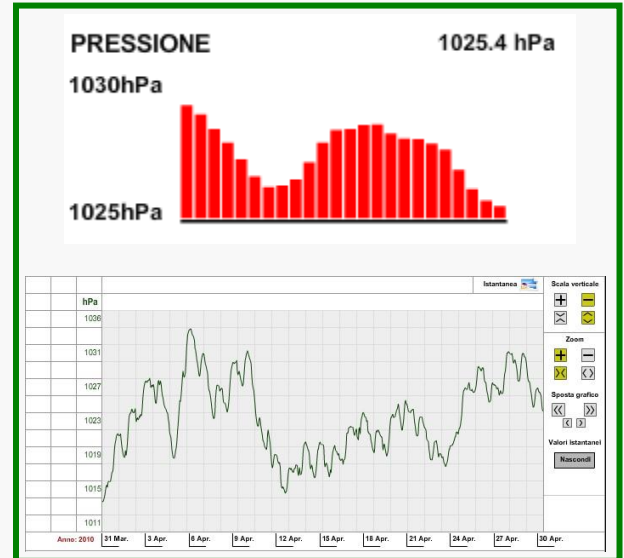
### Digital Barometer

#### Atmospheric Pressure Measurement

- o Atmospheric Pressure Sensor
- o Digital MEMS technology
- o High accuracy in temperature
- o Internal temperature compensation from -40° to +85°C
- o Fast Responsiveness
- o Internally mounted in the main unit
- o Digital output

#### APPLICATIONS:

- o Agronomic Meteorology
- o Industrial and infomobility meteorology
- o Weather stations - AWS



### Description

The digital barometer allows a very accurate measure of atmospheric pressure.

The presence of a static port enables mounting of the sensor cupboard inside the main station MeteoSense, MeteoSense 2.0, MeteoSense PRO and Marine and VineSense/AgriSense units.

This enables high accuracy measurement without requiring placement outside the unit, with obvious economic advantages (no cable box, etc..)

The atmospheric pressure measured may also be remotely compensated in order to match the pressure at ground level, as generally applied in meteorological applications.

Compensation can be done automatically and remotely, given the elevation of the installation location.

### Technical Features:

- Measuring range : 200 to 1100 hPa
- Absolute range : 0 to 5000 hPa
- Absolute accuracy [-10 +70 °C]: 0.4 hPa
- Relative accuracy [T const -10 to +50°C]: 0.05 hPa
- Long term stability: ± 1hPa/year
- Resolution: 0.1 hPa
- Operating temperature: -40 +85 °C

### Other features:

- Response time: 1 mS (high resolution mode)
- Typical current consumption: < 2 mA

### Traceability, packaging and shipping:

Each sensor is individually tested by the Manufacturer. Netsens also performs a two-step functional test, to prevent any malfunction during soldering/assembling process. Sensors are not sold separately, and are mounted inside main MeteoSense cabinet.

### Ordering Codes:

PS-0060-AD: Digital barometer for main unit

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### Electronic implementation

MEMS pressure sensor  
24 bit ADC  
Serial interface

### Warranty:

Netsens s.r.l. warrants that the above described components will be free from defects in material and workmanship for the following time period from the purchasing:

- Two years for items purchased by final users for non professional use;
- One year for items purchased by companies and organizations for professional use.

This warranty is valid only if all the components are used accordingly to the Manufacturer's indication and to the recommendations included in this User Manual.

This warranty does not cover: batteries, fuses, lights and any other consumable equipment. Also this warranty does not apply for damages due to neglect, misuse, contamination, alteration, accident or abnormal conditions of operation or handling, including failures caused by use outside Manufacturer specifications.

This warranty covers the original purchaser and it is not transferable.

If one or more components are supposed to be defective, contact Netsens s.r.l. or your local reseller in order to obtain a valid return authorization.

Netsens s.r.l. shall not be liable for any special, indirect, incidental or consequential damages or losses, arising from any cause.

Please contact Netsens s.r.l. for any additional information concerning warranty.

### Disposal of Waste Electrical & Electronic Equipment:



Disposal of Waste Electrical & Electronic Equipment:

The symbol (crossed out wheeled-bin) on your product indicates that the product shall not be mixed or disposed with your household waste at their end of use.

The product shall be handed over to your local community waste collection point for recycling of the product.

For more information, please contact your Government Waste Disposal department in your country. Inappropriate waste handling could possibly have a negative effect on the environment and human

health due to potential hazardous substances.

With your cooperation in the correct disposal of this product, you contribute to reuse, recycle and recover the product and our environment will be protected.

### Revisions:

Date	Version	Page/s	Modifications
14-12-2009	1.0	1-3	First Release
11-07-2012	1.1	1-3	Update
15-06-2017	1.2	1-2	Update
03-03-2019	1.3	1-2	Picture of IC

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