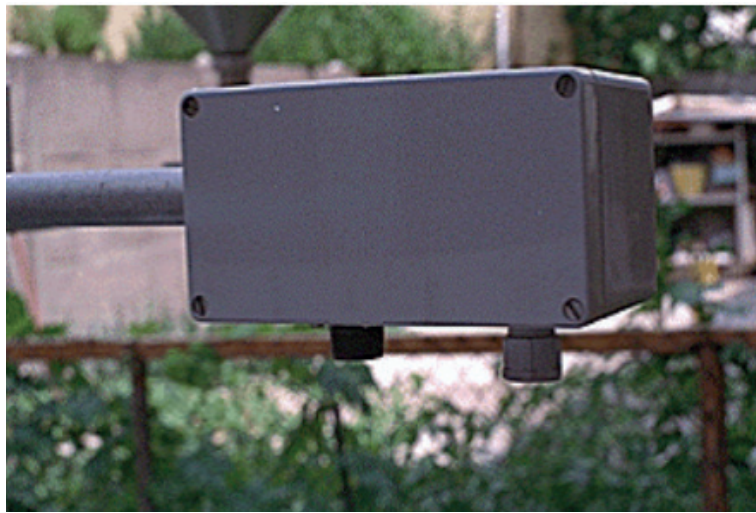




BP260 PRESSURE SENSOR

Atmospheric pressure measurement sensor



PRODUCT DESCRIPTION

Operation of the liquid-free aneroid barometers is based on the balance between the pressure exercised by the atmosphere and the elastic forces developed by bodies with a specially studied geometry, whose changes in shape translate into a elastic action that counterbalances the atmospheric action.

OPERATION

The extent of this deformation, converted into an electric signal and properly amplified, represents the value of the atmospheric pressure. The sensitive element of the BP260 barometer is a semiconductor whose resistance varies based on the atmospheric pressure; corresponding to this change is a change in direct voltage, therefore representing the electrical output of the sensor.

MAIN FEATURES

Maintenance Free Sensor:

the sensor in question requires no periodic maintenance; it may nevertheless be advisable to check its state and, if necessary, occasionally clean it.

Sturdy and reliable construction:

makes it an instrument with a long lifetime, which safeguards the customer's investment. The instrument does not drift due to aging and requires no periodic calibrations.

INSTALLATION AND MAINTENANCE

The instrument is placed on an adequate support (station post) without any particular requirement. It is advisable to check the calibration once a year and to clean the bronze filter protecting the air inlet. The instrument is equipped with fast semiconductor devices for protection from electric discharges induced on the connection cables.

The sensor perfectly meets the WMO recommendations in terms of principle of measurement, structure and performance.

COMPONENTS THAT CAN BE ADDED OR BE BUILT INTO THE PRODUCT

none

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Sensor type	Aneroid capsule
Range of measurement	600-1060 hPa
Precision	±0,5 hPa
Repeatability	±0,1 hPa
Linearity	≤0,2 hPa
Output	10,87 mV/hPa
Power supply	10-30 Vdc
Power	< 120 mW
Operating temperature	-30°C – 50°C
Storage temperature	-40°C – 70°C