

GLÖTZL Baumeßtechnik

BAROMETRIC PRESSURE TRANSDUCER

Electronic barometer

Type: LL02
Art. No: 59.01

- High measuring accuracy and temperature stability
- Frequency meas. procedure
- For large transfer distances
- Robust model

Application

The barometric pressure transducer type 1302 is used as electronic barometer for recording of the barometric pressure at the measuring point over automatic measuring stations.

The automatically measured barometric pressure values can also be used by conversion in height indications for elimination of the influences by barometric pressure on the measuring values of further transducers installed at the measuring point. This concerns above all hermetically tight pressure transducers in subsoil or in water.

The barometric pressure transducer LD02 is constructed for mounting in accessible constructions and works maintenance-free.

Description

The barometric pressure transducer has a compensated sensor element and a microprocessor for control and linearization of the pressure curve. By means of a frequency synthesizer, a quartz-stable sine signal is effected which gives a vibrating wire compatible measuring signal by a gal-vanically separated transmitter.

Thus, the barometric pressure transducer can be measured like a common passive vibrating wire transducer by means of a hand measuring device or by an automatic measuring station.

Power supply is done by a small supply unit (12/24/42 V DC or 230 V AC) or in case of several active transducers by a collecting line.



Technical data type LD02

Measuring range	850 mbars-1.050 mbars Further pressures as option
Overload factor	1.5
Operating frequency	700 ... 1.000 Hz galvanically separated
Resolution under calibration conditions	0. 25 mbar
Accuracy under calibration conditions	5 mbars
Operating temperature range	-15 ... + 60 °C
Max. cable length till meas. device	2000 ... 5.000 m (acc. to cable type)
Overvoltage protection	installed 2.5 kA
Supply	24 V DC or 230 V AC
Current consumption	max. 10mA
Weight	approx. 0.4 kg
Dimensions	approx. 120x200x60 mm

Subject to technical alternations