

Pressure Measuring Modules

Series 7132

Code: 7132 EN
 Delivery: ex stock
 Warranty: 24 months



7132 EN

- Measuring chain in conjunction with the DIGISTANT® 4423
- Measuring ranges for pressure modules

20 mbar	to	700 bar	against atmospheric
- 350 mbar	to	1 bar	vacuum
1 bar	to	20 bar	absolute
- 1 bar	to	2 bar	dual pressure
350 mbar	to	3.5 bar	difference
- Easy handling

Application

The pressure measuring modules have been designed particularly for mobile use on pressurized equipment requiring calibration. They are sturdily designed for rugged applications and with only 150 grams extremely light-weight.

The 7132 series pressure module is connected through the 7130 pressure module adapter to the DIGISTANT® model 4423. In this way, pressures can be quickly and economically checked for compliance with required specifications and calibrated.

Modules with very different measuring ranges are available.

The pressure is introduced through a connector with a 1/8" NPT internal thread.

Description

The "against atmosphere", vacuum and dual-pressure types measure in relation to atmospheric pressure. The absolute pressure sensors measure with reference to absolute zero. The difference pressure measures on one side with reference to an indicated direction.

The units for display are psi, mbar, kg/cm², atmos, kPa, Mpa, inHg, mmHg, inH₂O, mmH₂O or a pressure unit defined by the user.

"Against atmosphere", absolute, and dual-pressure types are insulated and medium-compatible with stainless steel of model 316SS. Vacuum and difference sensors must be pressurized only with clean, dry pressure media.

Manual pumps are built as grip-type pumps, spindle pumps or lever pumps, depending on the pressure range. The majority have a fine adjustment system which allows the pressure to be adjusted very precisely. In this way a customer's pressure measuring system can easily and economically be checked using the pressure module connected to the DIGISTANT® model 4423 and a pump.

Technical Data

Order Code	Parameter ²⁾	Measurement Range	Accuracy ^{1) and 5)}	Overpressure
7132-4020 <input type="checkbox"/>	against atmosphere	0 ... 20 mbar	± 0.1 %	400 %
7132-4067 <input type="checkbox"/>		0 ... 67 mbar	± 0.05 %	400 %
7132-4350 <input checked="" type="checkbox"/>		0 ... 350 mbar	± 0.025 %	400 %
7132-4500 ^{4) u. 6)} <input checked="" type="checkbox"/>		0 ... 500 mbar	± 0.207 mbar	
			± 0.035 %	300 %
7132-4700 <input checked="" type="checkbox"/>		0 ... 700 mbar	± 0.172 mbar	
			± 0.025 %	300 %
7132-5002 <input checked="" type="checkbox"/>		0 ... 2 bar	± 0.172 mbar	
7132-50035 <input checked="" type="checkbox"/>		0 ... 3.5 bar	± 0.025 %	300 %
7132-5007 <input checked="" type="checkbox"/>		0 ... 7 bar	± 0.03 %	300 %
7132-5010 ³⁾ <input checked="" type="checkbox"/>		0 ... 10 bar	± 0.025 %	300 %
7132-5020 <input checked="" type="checkbox"/>		0 ... 20 bar	± 0.035 %	200 %
7132-5034 <input checked="" type="checkbox"/>		0 ... 34 bar	± 0.025 %	200 %
7132-5070 <input checked="" type="checkbox"/>		0 ... 70 bar	± 0.025 %	200 %
7132-5100 ³⁾ <input checked="" type="checkbox"/>	0 ... 100 bar	± 0.025 %	200 %	
7132-5200 <input checked="" type="checkbox"/>	0 ... 200 bar	± 0.035 %	200 %	
7132-5340 <input checked="" type="checkbox"/>	0 ... 340 bar	± 0.05 %	200 %	
7132-5700 ⁹⁾ <input checked="" type="checkbox"/>	0 ... 700 bar	± 0.05 %	200 %	
7132-4350-V001 <input type="checkbox"/>	vacuum	0 ... -350 mbar	± 0.1 %	120 %
7132-5001-V001 ⁶⁾ <input type="checkbox"/>		0 ... -1 bar	± 0.025 %	400 %
7132-5001-V002 ⁶⁾ <input checked="" type="checkbox"/>	absolute	0 ... 1 bar	± 0.207 mbar	300 %
7132-5002-V002 <input checked="" type="checkbox"/>		0 ... 2 bar	± 0.025 %	300 %
7132-50035-V002 <input checked="" type="checkbox"/>		0 ... 3.5 bar	± 0.0025 %	300 %
7132-5007-V002 <input checked="" type="checkbox"/>		0 ... 7 bar	± 0.025 %	300 %
7132-5020-V002 <input checked="" type="checkbox"/>		0 ... 20 bar	± 0.025 %	300 %
7132-5001-V003 ⁶⁾ <input type="checkbox"/>		dual pressure	-1 ... 1 bar	± 0.025 %
7132-5002-V003 <input type="checkbox"/>	-1 ... 2 bar		± 0.172 mbar	300 %
7132-4350-V004 ⁷⁾ <input type="checkbox"/>	differential ⁴⁾	0 ... 350 mbar	± 0.025 %	400 %
7132-5002-V004 <input type="checkbox"/>		0 ... 2 bar	± 0.207 mbar	300 %
7132-50035-V004 <input type="checkbox"/>		0 ... 3.5 bar	± 0.025 %	300 %

uninsulated
 insulated

- The accuracy is relative to full scale in a temperature range from 15 °C ... 35 °C.
 Contains the pressure/temperature hysteresis in mbar, where listed, for six months after the last calibration.
 The accuracy data in the table refers to basic precision over the temperature range from 15 °C up to 35 °C.
 Outside this temperature range, an additional error of ± 0.0015 % of full scale/K must be added.
 A further error of 0.005 % of full scale/K must be added for the 20 mbar and 67 mbar ranges.
- The "against atmosphere", vacuum and dual pressure types measure relatively against atmospheric pressure.
 The absolute pressure sensors measure with reference to absolute zero.
 The difference type measures on one side with reference to an indicated direction.
- Range reduced, as the calibrated range of the module does not extend over the entire measuring range.
- The maximum static pressure is 14 bar.
- Relative to the calibration standard.
- Thermal and pressure hysteresis = 0.1724 mbar.
- Thermal and pressure hysteresis = 0.2068 mbar; all other ranges without hysteresis.
- The "against atmospheric", absolute and dual pressure types are insulated and medium-compatible with stainless steel of model 316SS.
 Vacuum and difference sensors must be pressurized only with clean, dry pressure media;
 corrosive air or gas are not suitable.
- Accuracy is valid over the range from 18 °C ... 28 °C. Outside this range, 0.0015 % / °C must be added to this.