PRECISION DIAL GAUGES

MODEL 61-050 ABSOLUTE PRESSURE
MODEL 62-050 GAUGE PRESSURE/VACUUM
MODEL 62-075 DIFFERENTIAL PRESSURE

TECHNICAL INFORMATION

Wallace & Tiernan Precision Dial Gauges are secondary pressure standards that are tried particularly for test procedures in workshops and for the most accurate pressure measurements in experimental and production processes. The knife-edge pointer, the scale with mirror ring and the graduation with ample white space between them allow safe, fast and parallax free readability of the pressure readings. All dial gauges can be supplied upon request with the DKD stamp mark according to the guidelines of the German Calibration Service and with the DKD calibration certificate.

ADVANTAGES

- Immediate use possible
- High sensitivity
- Good repeatability
- High long-time stability
- Dial with mirror ring
- High scale resolution over two pointer revolutions
- Different units of calibration available
- Two sets of graduation on the same dial available
- Parallax free readability
- DKD Calibration ex work possible
- For mobile use a compact suitcase-type carrying case is available

GENERAL

Wallace & Tiernan Precision Dial Gauges Series 1500 offers the best available accuracy build with feather elastic components. The product range includes three types of dial gauges for measurement of absolute pressure, gauge pressure, vacuum and differential pressure. Four different types of each model offer a selection in regard to accuracy, readability, size and pressure range.

Because of customized manufacturing of the instruments and their individual calibration, **Wallace & Tiernan** is able to guarantee outstandingly high technical performance. Applying our calibration method the specific characteristics of the pressure elements and the mechanisms of the gauge are considered in the scale type.

Graduation can be provided in each requested pressure unit. Dual scale calibration with two different pressure units is optionally available.

The two pointer revolutions of the series 1500 and 1000 result in a high scale resolution with an optimal readout. Graduation are easily seen; bold numbers are horizontally placed. The operator takes readings from one position – not possible with large-diameter gauges. All gauges with two pointer revolutions have a revolution indicator.

Wallace & Tiernan has an accredit calibration laboratory at its disposal. Calibration is done with primary standards according to DIN EN ISO/IEC 17025 and ISO 9001 which guarantees a direct traceability to national and international standards.

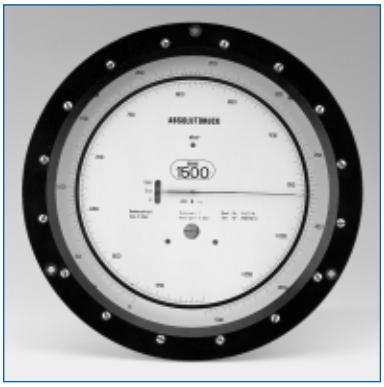
All units can be supplied with carrying case for mobile use. The precision dial gauge can be connected directly inside the case.

WALLACE & TIERNAN
LEADER IN QUALITY
DIN EN ISO 9001 certified
DKD-K-02301 DIN EN ISO/IEC 17025

WALLACE & TIERNAN

www.wallace-tiernan.com

TECHNICAL DATA
DIAL GAUGE FOR ABSOLUTE PRESSURE



MODEL 61-050
SERIES 1500 / 215 MM SCALE

Accuracy:
0.066 % of full scale

Sensitivity:
0.01 % of full scale

Hysteresis:
max. 0.05 % of full scale

Temperature effect:
Ranges up to 3400 mbar max. 0.019 % of full scale
Ranges from 7 bar max. 0.1 % of full scale
(per each 10 °C temperature deviation of 23 °C)

Scale length:
1140 mm (2 pointer revolutions)

Case pressure:
Max. 2.5 bar (35 PSI)

Case volume:
3070 cm^3, ranges up to 3400 mbar (50 PSI)
10 cm^3, ranges from 7 bar (100 PSI)
(pressure element volume, case open to atmosphere)

Measuring ranges:
min. 0 … 1060 mbar (15.5 PSI) abs.
up to max. 0 … 35 bar (500 PSI) abs.

Connection:
1/8" NPT female threat, ranges up to 3400 mbar
1/4" NPT female threat, ranges above 7 bar

MODEL 61-050
SERIES 1000/150 MM SCALE

Accuracy:
0.1 % of full scale

Sensitivity:
0.01 % of full scale

Hysteresis:
max. 0.1 % of full scale

Temperature effect:
Ranges up to 3400 mbar max. 0.019 % of full scale
Ranges from 7 bar max. 0.1 % of full scale
(per each 10 °C temperature deviation of 23 °C)

Scale length:
760 mm (2 pointer revolutions)

Case pressure:
Max. 2.5 bar (35 PSI)

Case volume:
1175 cm^3, ranges up to 3400 mbar (50 PSI)
10 cm^3, ranges from 7 bar (100 PSI)
(pressure element volume, case open to atmosphere)

Measuring ranges:
min. 0 … 1060 mbar (15.5 PSI) abs.
up to max. 0 … 35 bar (500 PSI) abs.

Connection:
1/8" NPT female threat, ranges up to 3400 mbar
1/4" NPT female threat, ranges above 7 bar

MODEL 61-050
SERIES 300/150 MM SCALE

Accuracy:
0.3 % of full scale

Sensitivity:
0.2 % of full scale

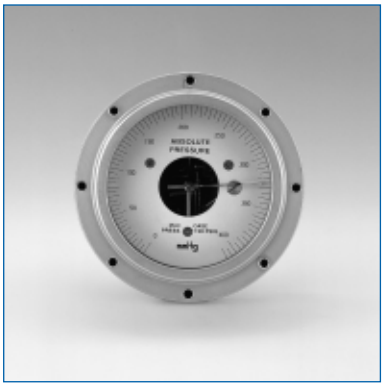
Scale length:
405 mm (1 pointer revolution)

Case volume:
405 cm^3 (case volume)

Case pressure:
Max. 1 bar (15 PSI)

Connection (at the back):
1/8" NPT female thread, ranges above 1060 mbar (15.5 PSI)
1/4" NPT female thread, ranges up to 1060 mbar (15.5 PSI)
(standard equipment including protector check valve)

Measuring ranges:
min. 0.1 … 27 mbar (20 mm Hg) abs.
up to max. 0 … 2 bar (30 PSI) abs.



MODEL 61-050
SERIES 300/70 MM SCALE

Accuracy:
0.3 % of full scale

Sensitivity:
0.2 % of full scale

Scale length:
180 mm (1 pointer revolution)

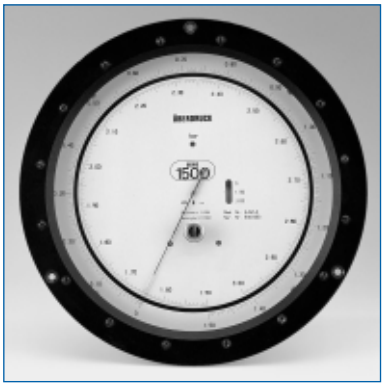
Case volume:
179 cm^3 (case volume)

Case pressure:
Max. 10 bar (150 PSI)

Connection (at the back):
1/8" NPT female thread, ranges above 1060 mbar
1/4" NPT female thread, ranges up to 1060 mbar
(standard equipment with protector check valve)

Measuring ranges:
min 0 … 67 mbar (50 mm Hg) abs
up to max. 0 … 7 bar (100 PSI) abs.

TECHNICAL DATA
DIAL GAUGE FOR GAUGE PRESSURE/VACUUM



MODEL 62-050
SERIES 1500/215 MM SCALE

Accuracy:
0.066 % of full scale

Sensitivity:
0.01 % of full scale

Hysteresis:
max. 0.05 % of full scale

Temperature effect:
max. 0.1 % of full scale
(per each 10 °C temperature deviation of 23 °C)

Scale length:
1140 mm (2 pointer revolutions)

Connection:
1/8" NPT female thread, ranges up to 10 bar (150 PSI)
1/4" NPT female thread, ranges above 10 bar (150 PSI)

Measuring ranges:
min. 0 … 300 mbar (4.5 PSI)
up to max. 0 … 70 bar (1000 PSI)

MODEL 62-050
SERIES 1000/150 MM SCALE

Accuracy:
0.1 % of full scale

Sensitivity:
0.01 % of full scale

Temperature effect:
max. 0.1 % of full scale
(per each 10 °C temperature deviation of 23 °C)

Scale length:
760 mm (2 pointer revolutions)

Connection:
1/8" NPT female thread, ranges up to 10 bar (150 PSI)
1/4" NPT female thread, ranges above 10 bar (150 PSI)

Measuring ranges:
min. 0 … 300 mbar (4.5 PSI)
up to max. 0 … 70 bar (1000 PSI)

MODEL 62-050
SERIES 300/150 MM SCALE

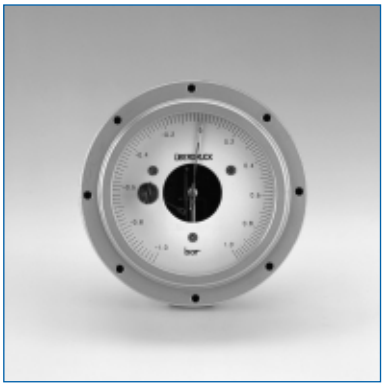
Accuracy:
0.3 % of full scale

Sensitivity:
0.2 % of full scale

Scale length:
405 mm (1 pointer revolution)

Connection:
1/8" NPT female thread

Measuring ranges:
min. 0 … 25 mbar (10" water)
up to max. 0 … 7 bar (100 PSI)



MODEL 62-050
SERIES 300/70 MM SCALE

Accuracy:
0.3 % of full scale

Sensitivity:
0.2 % of full scale

Scale length:
180 mm (1 pointer revolution)

Connection:
1/8" NPT female thread

Measuring ranges:
min. 0 … 25 mbar (10" water)
up to max. 0 … 7 bar (100 PSI)

TECHNICAL DATA
PRESSURE GAUGE FOR DIFFERENTIAL PRESSURE

MODEL 62-075
SERIES 1500/215 MM SCALE

Accuracy:
0.066 % of full scale

Sensitivity:
0.01 % of full scale

Hysteresis:
max. 0.05 % of full scale

Temperature effect:
max. 0.1 % of full scale
(per each 10 °C temperature deviation of 23 °C)

Scale length:
1140 mm (2 pointer revolutions)

Case pressure:
max. 2.5 bar (35 PSI)

Connection:
2 x 1/8" NPT female thread

Measuring ranges:
min. 0 … 300 mbar (4,5 PSI)
up to max. 0 … 10 bar (150 PSI)

MODEL 62-075
SERIES 1000/150 MM SCALE

Accuracy:
0.1 % of full scale

Sensitivity:
0.01 % of full scale

Hysteresis:
max. 0.1 % of full scale

Temperature effect:
max. 0.1 % of full scale
(per each 10 °C temperature deviation of 23 °C)

Scale length:
760 mm (2 pointer revolutions)

Case pressure:
max. 2.5 bar (35 PSI)

Connection:
2 x 1/8" NPT female thread

Measuring ranges:
min. 0 … 300 mbar (4,5 PSI)
up to max. 0 … 10 bar (150 PSI)

MODEL 62-075
SERIES 300/150 MM SCALE

Accuracy:
0.3 % of full scale

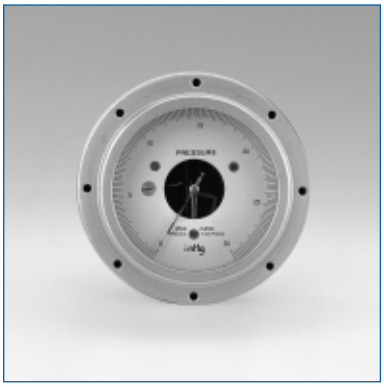
Sensitivity:
0.2 % of full scale

Scale length:
405 mm (1 pointer revolution)

Case pressure:
max. 1 bar (15 PSI)

Connection:
2 x 1/8" NPT female thread

Measuring ranges:
min. 0 … 25 mbar (10" water)
up to max. 0…7 bar (100 PSI)



MODEL 62-075
SERIES 300/70 MM SCALE

Accuracy:
0.3 % of full scale

Sensitivity:
0.2 % of full scale

Scale length:
180 mm (1 pointer revolution)

Case pressure:
max. 10 bar (150 PSI)

Connection:
2 x 1/8" NPT female thread

Measuring ranges:
min. 0 … 25 mbar (10" water)
up to max. 0 … 7 bar (100 PSI)

TECHNICAL DATA

Scale type with mirror ring

DESIGN AND FUNCTION

In low and medium pressure ranges (absolute pressure up to 3.4 bar, gauge and differential pressure up to 10 bar) all instruments are equipped with capsules. The higher pressure ranges (up to 70 bar) are equipped with Bourdon tubes. The Bourdon tubes always consist of “Ni-Span-C” (chrome-nickel-alloy) whereas the capsules are manufactured either from “Ni-Span-C” or copper beryllium depending on the application. All measurement elements are formed according to a specific method, tempered and aged. The pressure element movement is amplified and transmitted to the pointer via a mechanical linkage. An anti-blacklash device maintains unifrom tension between the parts and minimize the hysteresis effects.

All capsule gauges are to be used for air or dry gases only. Bourdon tube gauges in their standard version are also build for the use of gas. As a special design Bourdon tube gauges are also available for liquid service. Pressurized gas inside the Bourdon tube of these instruments can be eliminated with a special vent unit. Calibrations of all instruments are carried out using air or nitrogen.

Zero adjustment can be done out by means of a front adjustment screw. Several instruments provide additional access for adjustment from the rear of the case. Gauge pressure instruments provide easy access to the adjustment unit through the front dial covered simply by removing a cup screw. The zero adjustment screw of dial gauges for absolute and differential pressure should be applied from the rear of the case if possible. The front adjustment unit of these instruments is accessible only after removing the cover.

Although highly sensitive and accurate the mechanism is built to withstand the handling normally associated with calibration of pneumatic instrumentation.

The mechanism must not be lubricated.

TECHNICAL DATA

Case Construction:
Anodized aluminum with tempered glass dial cover.
Dial gauges for differential pressure of the series 1500, 1000 and 300/150 mm scale as well as dial gauges for absolute pressure of the series 1500 and 1000 are equipped with overpressure relief valves as a standard.

Case Connections:
1/8” or 1/4” NPT female thread
(depending on instrument type and measuring range)

Case Dimensions:

Series 1500:

Front ring diameter	272 mm
Case diameter	248 mm
Case depth	119 mm

Series 1000:

Front ring diameter	216 mm
Case diameter	203 mm
Case depth	103 mm

Series 300/150 mm Scale

Front ring diameter	216 mm
Case diameter	192 mm
Case depth	114 – 116 mm

Series 300/70 mm Scale:

Front ring diameter	95 mm
Case diameter	79.5 mm
Case depth	80 mm

Weight:

Series 1500	approx. 4 kg
Series 1000	approx. 3 kg
Series 300/150 mm scale	approx. 2 kg
Series 300/70 mm scale	approx. 0.6 kg

Options:
Graduation is available in every requested linear pressure unit without extra cost. Calibration is for vertical mounting. Different types of mounting need to be specified.

Additional Equipment:
Available as an option is a suitcase-type carrying case for the instruments (not for series 300 / 70 mm scale).

Dual Graduation:
Instruments of the series 1500 and 300 / 150 mm dial are available with two sets of graduations on the same dial for additional charge.

Ordering Information:
When ordering, please give: instrument type, series, measuring range with pressure unit or pressure units for dual graduation, mounting angle if different from vertical mounting.

MEASURING RANGES

Absolute Pressure			Gauge / Vacuum / Compound Pressure			Differential / Vacuum / Compound Pressure		
Serie 1500 – Accuracy 0.066 % of full scale								
Ordering No.	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**
61A-1A-0015	0…15.5 PSIA (1060 mbar)	0.02 PSI	62A-2A-0005	0…4.5 PSI (300 mbar)	0.005 PSI	62A-4A-0005	0…4.5 PSI (300 mbar)	0.005 PSI
61A-1A-0025	0…25 PSIA (1700 mbar)	0.02 PSI	62A-2A-0010	0…10 PSI (700 mbar)	0.01 PSI	62A-4A-0010	0…10 PSI (700 mbar)	0.01 PSI
61A-1A-0035	0…35 PSIA (2400 mbar)	0.05 PSI	62A-2A-0015	0…15.5 PSI (1 bar)	0.02 PSI	62A-4A-0015	0…15.5 PSI (1 bar)	0.02 PSI
61A-1A-0050	0…50 PSIA (3400 mbar)	0.05 PSI	62A-2A-0020	0…20 PSI (1.4 bar)	0.02 PSI	62A-4A-0020	0…20 PSI (1.4 bar)	0.02 PSI
61A-1A-0100	0…100 PSIA (7 bar)	0.1 PSI	62A-2A-0030	0…30 PSI (2 bar)	0.05 PSI	62A-4A-0030	0…30 PSI (2 bar)	0.05 PSI
61A-1A-0150	0…150 PSIA (10 bar)	0.2 PSI	62A-2A-0045	0…45 PSI (3 bar)	0.05 PSI	62A-4A-0045	0…45 PSI (3 bar)	0.05 PSI
61A-1A-0200	0…200 PSIA (14 bar)	0.2 PSI	62A-2A-0060	0…60 PSI (4 bar)	0.1 PSI	62A-4A-0060	0…60 PSI (4 bar)	0.1 PSI
61A-1A-0300	0…300 PSIA (21 bar)	0.5 PSI	62A-2A-0100	0…100 PSI (7 bar)	0.1 PSI	62A-4A-0100	0…100 PSI (7 bar)	0.1 PSI
61A-1A-0500	0…500 PSIA (35 bar)	0.5 PSI	62A-2A-0150	0…150 PSI (10 bar)	0.2 PSI	62A-4A-0150	0…150 PSI (10 bar)	0.2 PSI
			62A-2A-0200	0…200 PSI (14 bar)	0.2 PSI	62A-7B-0030	–30…0 in Hg (–1,05 bar)	0.05 in Hg
			62A-2A-0300	0…300 PSI (21 bar)	0.5 PSI	62A-6B-0030	–15…0…15 in Hg (±0,5 bar)	0.05 in Hg
			62A-2A-0500	0…500 PSI (35 bar)	0.5 PSI	62A-6B-0060	–30…0…30 in Hg (±1 bar)	0.1 in Hg
			62A-2A-1000	0…1000 PSI (70 bar)	1 PSI	62A-6B-0120	–30…0…90 in Hg (–1.05…0…3 bar)	0.2 in Hg
			62A-3B-0030	–30…0 in Hg (–1.05 bar)	0.05 in Hg	62A-6B-0300	–30…0…270 in Hg (–1.05…0…9 bar)	0.5 in Hg
			62A-5B-0030	–15…0…15 in Hg (±0.5 bar)	0.05 in Hg			
			62A-5B-0060	–30…0…30 in Hg (±1 bar)	0.1 in Hg			
			62A-5B-0120	–30…0…90 in Hg (–1.05…0…3 bar)	0.2 in Hg			
			62A-5B-0300	–30…0…270 in Hg (–1.05…0…9 bar)	0.5 in Hg			

Serie 1000 – Accuracy 0.1 % of full scale								
Ordering No.	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**
61B-1A-0015	0…15.5 PSIA (1060 mbar)	0.02 PSI	62B-2A-0005	0…4.5 PSI (300 mbar)	0.01 PSI	62B-4A-0005	0…4.5 PSI (300 mbar)	0.01 PSI
61B-1A-0025	0…25 PSIA (1700 mbar)	0.05 PSI	62B-2A-0010	0…10 PSI (700 mbar)	0.02 PSI	62B-4A-0010	0…10 PSI (700 mbar)	0.02 PSI
61B-1A-0035	0…35 PSIA (2400 mbar)	0.05 PSI	62B-2A-0015	0…15.5 PSI (1 bar)	0.02 PSI	62B-4A-0015	0…15.5 PSI (1 bar)	0.02 PSI
61B-1A-0050	0…50 PSIA (3400 mbar)	0.1 PSI	62B-2A-0020	0…20 PSI (1.4 bar)	0.05 PSI	62B-4A-0020	0…20 PSI (1.4 bar)	0.05 PSI
61B-1A-0100	0…100 PSIA (7 bar)	0.2 PSI	62B-2A-0030	0…30 PSI (2 bar)	0.05 PSI	62B-4A-0030	0…30 PSI (2 bar)	0.05 PSI
61B-1A-0150	0…150 PSIA (10 bar)	0.2 PSI	62B-2A-0045	0…45 PSI (3 bar)	0.1 PSI	62B-4A-0045	0…45 PSI (3 bar)	0.1 PSI
61B-1A-0200	0…200 PSIA (14 bar)	0.5 PSI	62B-2A-0060	0…60 PSI (4 bar)	0.1 PSI	62B-4A-0060	0…60 PSI (4 bar)	0.1 PSI
61B-1A-0300	0…300 PSIA (21 bar)	0.5 PSI	62B-2A-0100	0…100 PSI (7 bar)	0.2 PSI	62B-4A-0100	0…100 PSI (7 bar)	0.2 PSI
61B-1A-0500	0…500 PSIA (35 bar)	1 PSI	62B-2A-0150	0…150 PSI (10 bar)	0.2 PSI	62B-4A-0150	0…150 PSI (10 bar)	0.2 PSI
			62B-2A-0200	0…200 PSI (14 bar)	0.5 PSI	62B-7B-0030	–30…0 in Hg (–1,05 bar)	0.05 in Hg
			62B-2A-0300	0…300 PSI (21 bar)	0.5 PSI	62B-6B-0030	–15…0…15 in Hg (±0,5 bar)	0.05 in Hg
			62B-2A-0500	0…500 PSI (35 bar)	1 PSI	62B-6B-0060	–30…0…30 in Hg (±1 bar)	0.1 in Hg
			62B-2A-1000	0…1000 PSI (70 bar)	2 PSI	62B-6B-0120	–30…0…90 in Hg (–1.05…0…3 bar)	0.2 in Hg
			62B-3B-0030	–30…0 in Hg (–1.05 bar)	0.05 in Hg	62B-6B-0300	–30…0…270 in Hg (–1.05…0…9 bar)	0.5 in Hg
			62B-5B-0030	–15…0…15 in Hg (±0.5 bar)	0.05 in Hg			
			62B-5B-0060	–30…0…30 in Hg (±1 bar)	0.1 in Hg			
			62B-5B-0120	–30…0…90 in Hg (–1.05…0…3 bar)	0.2 in Hg			
			62B-5B-0300	–30…0…270 in Hg (–1.05…0…9 bar)	0.5 in Hg			

Liqud service
Gauges with ranges of 100 PSI and above (Bourdon tube pressure elements) can be used for non-corrosive liquid service.

MEASURING RANGES

Absolute Pressure			Gauge / Vacuum / Compound Pressure			Differential / Vacuum / Compound Pressure		
Serie 300 / 150 mm Skala – Accuracy 0.3 % of full scale								
Ordering No.	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**
61C-1D-0020	0.1…20 mm Hg (27 mbar)	0.1 mm Hg	62C-2C-0010	0…10 in H_2O (25 mbar)	0.05 in H_2O	62C-4C-0010	0…10 in H_2O (25 mbar)	0.05 in H_2O
61C-1D-0050	0…50 mm Hg (67 mbar)	0.2 mm Hg	62C-2C-0020	0…20 in H_2O (50 mbar)	0.1 in H_2O	62C-4C-0020	0…20 in H_2O (50 mbar)	0.1 in H_2O
61C-1D-0100	0…100 mm Hg (135 mbar)	0.5 mm Hg	62C-2C-0040	0…40 in H_2O (100 mbar)	0.2 in H_2O	62C-4C-0040	0…40 in H_2O (100 mbar)	0.2 in H_2O
61C-1D-0200	0…200 mm Hg (270 mbar)	1 mm Hg	62C-2C-0060	0…60 in H_2O (150 mbar)	0.2 in H_2O	62C-4C-0060	0…60 in H_2O (150 mbar)	0.2 in H_2O
61C-1D-0410	0…410 mm Hg (550 mbar)	2 mm Hg	62C-2C-0100	0…100 in H_2O (250 mbar)	0.5 in H_2O	62C-4C-0100	0…100 in H_2O (250 mbar)	0.5 in H_2O
61C-1D-0390	390…800 mm Hg (520…1060 mbar)	2 mm Hg	62C-2C-0200	0…200 in H_2O (500 mbar)	1 in H_2O	62C-4C-0200	0…200 in H_2O (500 mbar)	1 in H_2O
61C-1D-0800	0…800 mm Hg (1060 mbar)	5 mm Hg	62C-2C-0300	0…300 in H_2O (750 mbar)	1 in H_2O	62C-4C-0300	0…300 in H_2O (750 mbar)	1 in H_2O
61C-1A-0030	0…30 PSIA (2050 mbar)	0.1 PSI	62C-2C-0400	0…400 in H_2O (1 bar)	2 in H_2O	62C-4C-0400	0…400 in H_2O (1 bar)	2 in H_2O
			62C-2A-0030	0…30 PSI (2 bar)	0.1 PSI	62C-4A-0030	0…30 PSI (2 bar)	0.1 PSI
			62C-2A-0060	0…60 PSI (4 bar)	0.2 PSI	62C-4A-0060	0…60 PSI (4 bar)	0.2 PSI
			62C-2A-0100	0…100 PSI (7 bar)	0.5 PSI	62C-4A-0100	0…100 PSI (7 bar)	0.5 PSI
			62C-3C-0010	–10…0 in H_2O (–25 mbar)	0.05 in H_2O	62C-7C-0010	–10…0 in H_2O (–25 mbar)	0.05 in H_2O
			62C-3C-0020	–20…0 in H_2O (–50 mbar)	0.1 in H_2O	62C-7C-0020	–20…0 in H_2O (–50 mbar)	0.1 in H_2O
			62C-3C-0400	–400…0 in H_2O (–1000 mbar)	2 in H_2O	62C-7C-0400	–400…0 in H_2O (–1000 mbar)	2 in H_2O
			62C-5C-0010	–5…0…5 in H_2O (±12,5 mbar)	0.05 in H_2O	62C-6C-0010	–5…0…5 in H_2O (±12,5 mbar)	0.05 in H_2O
			62C-5C-0020	–10…0…10 in H_2O (±25 mbar)	0.1 in H_2O	62C-6C-0020	–10…0…10 in H_2O (±25 mbar)	0.1 in H_2O
			62C-5C-0040	–20…0…20 in H_2O (±50 mbar)	0.2 in H_2O	62C-6C-0040	–20…0…20 in H_2O (±50 mbar)	0.2 in H_2O

Serie 300 / 70 mm Skala – Genauigkeit 0,3 % vom Skalenendwert								
Ordering No.	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**	**Ordering No.**	**Range**	**Graduation**
61D-1D-0050	0…50 mm Hg (67 mbar)	0.5 mm Hg	62D-2C-0010	0…10 in H_2O (25 mbar)	0.1 in H_2O	62D-4C-0010	0…10 in H_2O (25 mbar)	0.1 in H_2O
61D-1D-0100	0…100 mm Hg (135 mbar)	1 mm Hg	62D-2C-0020	0…20 in H_2O (50 mbar)	0.2 in H_2O	62D-4C-0020	0…20 in H_2O (50 mbar)	0.2 in H_2O
61D-1D-0200	0…200 mm Hg (270 mbar)	2 mm Hg	62D-2C-0040	0…40 in H_2O (100 mbar)	0.5 in H_2O	62D-4C-0040	0…40 in H_2O (100 mbar)	0.5 in H_2O
61D-1D-0410	0…410 mm Hg (550 mbar)	5 mm Hg	62D-2C-0060	0…60 in H_2O (150 mbar)	0.5 in H_2O	62D-4C-0060	0…60 in H_2O (150 mbar)	0.5 in H_2O
61D-1D-0390	390…800 mm Hg (520…1060 mbar)	5 mm Hg	62D-2C-0100	0…100 in H_2O (250 mbar)	1 in H_2O	62D-4C-0100	0…100 in H_2O (250 mbar)	1 in H_2O
61D-1A-0015	0…800 mm Hg (1060 mbar)	10 mmHg	62D-2C-0200	0…200 in H_2O (500 mbar)	2 in H_2O	62D-4C-0200	0…200 in H_2O (500 mbar)	2 in H_2O
61D-1A-0030	0…30 PSIA (2050 mbar)	0.2 PSI	62D-2C-0300	0…300 in H_2O (750 mbar)	2 in H_2O	62D-4C-0300	0…300 in H_2O (750 mbar)	2 in H_2O
61D-1A-0060	0…60 PSIA (4000 mbar)	0.5 PSI	62D-2C-0400	0…400 in H_2O (1 bar)	5 in H_2O	62D-4C-0400	0…400 in H_2O (1 bar)	5 in H_2O
61D-1A-0100	0…100 PSIA (7000 mbar)	1 PSI	62D-2A-0030	0…30 PSI (2 bar)	0,2 PSI	62D-4A-0030	0…30 PSI (2 bar)	0,2 PSI
			62D-2A-0060	0…60 PSI (4 bar)	0.5 PSI	62D-4A-0060	0…60 PSI (4 bar)	0.5 PSI
			62D-2A-0100	0…100 PSI (7 bar)	1 PSI	62D-4A-0100	0…100 PSI (7 bar)	1 PSI
			62D-3C-0010	–10…0 in H_2O (–25 mbar)	0.1 in H_2O	62D-7C-0010	–10…0 in H_2O (–25 mbar)	0.1 in H_2O
			62D-3C-0020	–20…0 in H_2O (–50 mbar)	0.2 in H_2O	62D-7C-0020	–20…0 in H_2O (–50 mbar)	0.2 in H_2O
			62D-3C-0400	–400…0 in H_2O (–1000 mbar)	5 in H_2O	62D-7C-0400	–400…0 in H_2O (–1000 mbar)	5 in H_2O
			62D-5C-0010	–5…0…5 in H_2O (±12,5 mbar)	0.1 in H_2O	62D-6C-0010	–5…0…5 in H_2O (±12,5 mbar)	0.1 in H_2O
			62D-5C-0020	–10…0…10 in H_2O (±25 mbar)	0.2 in H_2O	62D-6C-0020	–10…0…10 in H_2O (±25 mbar)	0.2 in H_2O
			62D-5C-0040	–20…0…20 in H_2O (±50 mbar)	0.5 in H_2O	62D-6C-0040	–20…0…20 in H_2O (±50 mbar)	0.5 in H_2O

DKD CALIBRATION

DKD Calilbration laboratory in Günzburg for pressure

DKD CALIBRATION LABORATORY FOR PRESSURE

Since 1980 we are accredited by

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SERVICE

Wallace & Tiernan Günzburg not only calibrates instruments of its own production but also all types of pressure measuring instruments from other manufacturers up to a pressure range of 200 bar.

Measurant or device for calibration	Measuring range	Measurement conditions	Uncertainty of measurement
Pressure and Vacuum p_e	-1 bar up to –0.1 bar	In gases	$1{,}5 \cdot 10^{-4} \cdot p_e$; however, no less than 0.1 mbar
	> –0.1 bar up to 0 bar		15 µbar
	0 bar up to 1.2 bar		$9 \cdot 10^{-5} \cdot p_e$; however, no less than 0.015 mbar
	> 1.2 bar up to 2.5 bar		$8 \cdot 10^{-5} \cdot p_e$
	> 2.5 bar up to 5 bar		$9 \cdot 10^{-5} \cdot p_e$
	> 5 bar up to 80 bar		$7 \cdot 10^{-5} \cdot p_e$; however no less than 0.5 mbar
	> 80 bar up to 200 bar		$8 \cdot 10^{-5} \cdot p_e$
Absolute pressure p_{abs}	0 bar up to 1.2 bar	In gases	$9 \cdot 10^{-5} \cdot p_{abs}$; however, no less than 0.025 mbar
	> 1.2 bar up to 2.5 bar		$8 \cdot 10^{-5} \cdot p_{abs}$
	> 2.5 bar up to 5 bar		$9 \cdot 10^{-5} \cdot p_{abs}$
	> 5 bar up to 81 bar		$7 \cdot 10^{-5} \cdot p_{abs}$; however, no less than 0.5 mbar
	> 81 bar up to 201 bar		$8 \cdot 10^{-5} \cdot p_{abs}$

WALLACE & TIERNAN

Belgium
EMTEC
F. Pelletier Street 56, Bus 15
1030 Bruxelles, BELGIUM
Tel.: +32 2736 89 60, Fax: +32 2733 01 73
Email: info@emtec-instruments.be

Germany
WALLACE & TIERNAN GmbH
Auf der Weide 10
D-89312 Günzburg, GERMANY
Tel.: +49 8221-9040, Fax: +49 8221-904140
Email: wtger@chemfeed.org

France
WALLACE & TIERNAN S.A.R.L.
BP 150, 1/3 rue Pavlov
F-78196 Trappes Cedex, FRANCE
Tel.: +33 1-34 82 18 50, Fax: +33 1-30 50 98 08
Email: mullerJ@usfinternational.com

Norway
Fly & Industri, Instrumenter AS
Hauketoveien 11
N-1266 Oslo, NORWAY
Tel.: +47 22 61 1480, Fax: +47 22 75 4781
Email: firmapost@flyindustri.no

Austria
Schmachtl KG
Pummerstraße 36
4020 Linz, AUSTRIA
Tel.: +43 732 7646-0, Fax: +43 732 785036
Email: office.linz@schmachtl.at

SERKAL GmbH
Kreuzwiesengasse 12
2111 Harrmannsdorf, AUSTRIA
Tel.: +43 226426951, Fax: +43 226426952
Email: winkler@serkal.com

Poland
Radiotechnika
Marketing Sp. z.o.o.
Ul. H. Sienkiewicza 6 a
50335 Wroclaw, POLAND
Tel.: +48 713453669, Fax: +48 713211612
Email: office@radiotechmkt.com.pl

Spain
GOMETRICS, S.L.
POL. IND. RIERA DA CALDES
C/. BASTERS, 17
08184 PALAU-SOLITA I PLEGAMANS, BARCELONA
Tel.: +34 93 864 6843, Fax: +34 93 864 8218
Email: comercial@gometrics.net

Turkey
BiS Sistem Entegrasyon Elektronik
Bilisim Hizmetleri Ticaret Ltd.
Uzuncayir Cad. No: 31. D1-Blok. Da; 9
81010 Kadiköy – Istanbul
Tel.: +90 216 326 1695, Fax: +90 216 326 8656
Email: bisltd@atlas.net.tr

Czechia
BHV senzory
Suchdolská 4
Sedlec
CZ 160 00 Praha 6, CZECH REPUPLIC
Tel.: +420 220 920 253, Fax: +420 220 922 036
Email: bhvsenzory@bhvsenzory.cz

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