

PRECISION MANOMETER / MANOMETER FOR OVER / UNDER AND DIFFERENTIAL PRESSURE



-500.0 .. + 500.0 PA (± 500.0 PA *2)

GMH 3161-002

Item No. 600469

Portable pressure instrument with integr. sensor

GMH 3181-002

Item No. 600470

Portable pressure instrument with integr. sensor and data logger

GMH 3161-002-EX

Item No. 606685

Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



GMH 3181-002-EX

Item No. 609063

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

TECHNICAL SPECIFICATIONS:

Measuring range:	-500.0 .. + 500.0 Pa (-5,000 .. + 5,000 mbar)
Overload:	max. 250 hPa (mbar)
Resolution:	0.1 Pa (0.001 mbar)
additional pressure units:	kPa, PSI, mmHg, mH ₂ O
Accuracy: (typ. values)	
Hysteresis and linearity:	0.3 % FS
Temperature influence from 0 - 50 °C:	0.4 % FS
Option higher accuracy possible:	No
Pressure connections:	2



-100..+2500 PA (± 2500 PA *1)

GMH 3161-01

Item No. 600397

Portable pressure instrument with integr. sensor

GMH 3181-01

Item No. 600411

Portable pressure instrument with integr. sensor and data logger

GMH 3161-01-EX

Item No. 607458

Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



GMH 3181-01-EX

Item No. 600796

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

-1.00..+70.00 MBAR (± 70.00 MBAR *1)

GMH 3161-07H

Item No. 600405

Portable pressure instrument with integr. sensor

GMH 3181-07H

Item No. 600417

Portable pressure instrument with integr. sensor and data logger

GMH 3161-07H-EX

Item No. 610042

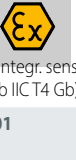
Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



GMH 3181-07H-EX

Item No. 604074

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



TECHNICAL SPECIFICATIONS:	... - 01	... - 07H
Measuring range:	-100 .. + 2500 Pa (-1.00 ... +25.00 mbar)	-1.00 .. + 70.00 mbar
Overload:	max. 100 mbar	max. 1000 mbar
Resolution:	1 Pa (0.01 mbar)	0.01 mbar
additional pressure units:	bar, kPa, PSI, mmHg, mH ₂ O	bar, Pa, kPa, PSI, mmHg, mH ₂ O
Accuracy (typ. values)		
Hysteresis and linearity:	± 0.3 % FS	± 0.1 % FS
Temperature influence from 0 - 50 °C:	± 0.4 % FS	± 0.4 % FS
Option higher accuracy possible:	No	already integrated
Pressure connections:	2	

*1 Measuring range can be obtained by reconnecting the pressure port
*2 without changing the pressure connection
*3 with option "higher sensor accuracy"

PRECISION MANOMETER / MANOMETER FOR OVER / UNDER AND DIFFERENTIAL PRESSURE

-10.0...+350.0 MBAR (± 350.0 MBAR * 1)**GMH 3161-07**

Item No. 600400

Portable pressure instrument with integr. sensor

GMH 3181-07

Item No. 600413

Portable pressure instrument with integr. sensor and data logger

GMH 3161-07-EX

Item No. 604435

Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

**GMH 3181-07-EX**

Item No. 601386

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



-10.0...+420.0 MBAR (-7.5...+315.0 MMHg)

GMH 3161-07B

Item No. 600402

Portable pressure instrument with integr. sensor

GMH 3181-07B

Item No. 600415

Portable pressure instrument with integr. sensor and data logger

GMH 3161-07B-EX

Item No. 609064

Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

**GMH 3181-07B-EX**

Item No. 604724

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



TECHNICAL SPECIFICATIONS:	... - 07	... - 07B
Measuring range:	-10.0... +350.0 mbar	-10.0 ... +420.0 mbar (-7.5 ... 315.0 mmHg)
Overload:	max. 1 bar	max. 1 bar
Resolution:	0.1 mbar	0.1 mbar (0.1 mmHg)
additional pressure units:	bar, kPa, MPa, PSI, mmHg, mH ₂ O	bar, kPa, MPa, PSI, mH ₂ O
Accuracy: (typ. values)		
Hysteresis and linearity:	± 0.2 % FS (± 0.1 % FS) ^{*3}	± 0.1 % FS
Temperature influence from 0 - 50 °C:	± 0.4 % FS	± 0.4 % FS
Option higher accuracy possible:	Yes	already integrated
Pressure connections:	2	

MANOMETER FOR POSITIVE / NEGATIVE AND DIFFERENTIAL PRESSURE

-100...+2000 MBAR (± 2000 MBAR *1)**GMH 3161-13**

Item No. 600409

Portable pressure instrument with integr. sensor

GMH 3181-13

Item No. 600421

Portable pressure instrument with integr. sensor and data logger

GMH 3161-13-EX

Item No. 600647

Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

**GMH 3181-13-EX**

Item No. 602263

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)



TECHNICAL SPECIFICATIONS:

Measuring range: -100 ... + 2000 mbar (optional: -1000 ... + 2000 mbar)

Overload: max. 4 bar

Resolution: 1 mbar

additional pressure units: bar, kPa, MPa, PSI, mmHg, mH₂O

Accuracy: (typ. values)

Hysteresis and linearity: ± 0.2 % FS; (± 0.1 % FS)^{*3}Temperature influence from 0..50 °C: ± 0.4 % FS

Option higher accuracy possible: Yes

Pressure connections: 2

VARIANTS: MEASURING RANGE -1000...+2000 MBAR *2

GMH 3161-13-00-MB

Item No. 600527

Portable pressure instrument with integr. sensor,

GMH 3161-13-EX-MB

Item No. 607243

Portable pressure instrument with integr. sensor

GMH 3181-13-00-MB

Item No. 600529

Portable pressure instrument with integr. sensor and data logger

GMH 3181-13-MB-00-EX

Item No. 432507

Portable pressure instrument with integr. sensor and data logger

*1 Measuring range can be reached by repositioning the pressure connection

*2 without changing the pressure connection

*3 with option "higher sensor accuracy"

VACUUMMETER OR BAROMETER



HIGHLIGHTS:

- can be operated completely in a vacuum

FOR ABSOLUTE PRESSURE MEASUREMENT



0..1300 MBAR ABS.

GMH 3161-12

Item No. 600407

Portable pressure instrument with integr. sensor

GMH 3181-12

Item No. 600419

Portable pressure instrument with integr. sensor and data logger

GMH 3161-12-EX

Item No. 610043

Portable pressure instrument with integr. sensor, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

**GMH 3181-12-EX**

Item No. 610044

Portable pressure instrument with integr. sensor and data logger, explosion protection (Ex II 2 G Ex ib IIC T4 Gb)

**TECHNICAL SPECIFICATIONS:**

Measuring range:	0..1300 mbar abs.
Overload:	max. 4 bar abs.
Resolution:	1 mbar
Pressure units:	mbar, bar, kPa, MPa, PSI, mmHg, mH ₂ O
Accuracy: (typ. values)	
Hysteresis and linearity:	± 0.2 % FS; (± 0.1 % FS)* ³
Temperature influence from 0..50 °C:	± 0.4 % FS
Option higher accuracy possible:	Yes
Pressure connections:	1

SPECIAL FUNCTION:**Sea level adjustment:**

The barometric air pressure can also be displayed in relation to sea level "zero". (The air pressure is corrected by entering the altitude above "zero" in meters)

*3 with option "higher sensor accuracy"

COMPLETE PACKAGES

**GMH 3161-07-WPD5**

Item No. 602684

Complete package with ISO calibration certificate ISO-WPD5 (5 points each rising and falling) and case GKK 3000.

GMH 3161-12-WPD5

Item No. 602685

Complete package with ISO calibration certificate ISO-WPD5 (5 points each rising and falling) and case GKK 3000.

GMH 3161-13-WPD5

Item No. 602686

Complete package with ISO calibration certificate ISO-WPD5 (5 points each rising and falling) and case GKK 3000.

ACCESSORIES

OPTIONS:**Higher sensor accuracy**

by multi-point calibration Note: not available for all device versions!

ACCESSORIES OR SPARE PARTS:**ISO-WPD5**

Item No. 602514

ISO calibration certificate: Factory calibration pressure, 5 points rising and falling, max 600 bar

ISO-WPD10

Item No. 602565

ISO calibration certificate: Factory calibration pressure, 10 points rising and falling, max 600 bar

GNG 10/3000

Item No. 600273

Plug power supply for GMH 3XXX series

GRS 3100

Item No. 601097

Interface converter GMH3xxx <=> PC, RS232

USB 3100 N

Item No. 601092

Interface converter GMH3xxx <=> PC, USB

GDZ-01

Item No. 601541

PVC tube 6/4 (6 mm outer Ø, 4 mm inner Ø, 5 bar at 23 °C)

GDZ-08

Item No. 601555

Double socket for tube 6/4 on tube 6/4

GDZ-18

Item No. 601576

Tube clamp for tube 6/4

GDZ-21

Item No. 601582

T-piece for tubes 6/4

GKK 3000

Item No. 601048

Device case with soft cutout for 1x GMH 3000, 275 x 229 x 83 mm (W x H x D)

