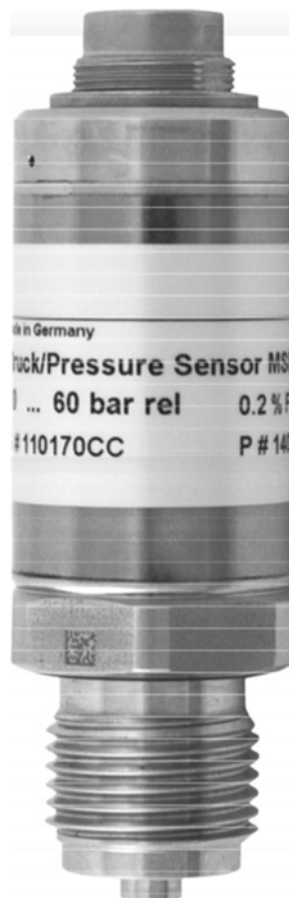


Digital Pressure Sensors

Model HND-PS19...PS33, HND-PA20...PA23

for

HND-P105, HND-P210, HND-P215



We don't accept warranty and liability claims neither upon this publication nor in case of improper treatment of the described products.

The document may contain technical inaccuracies and typographical errors. The content will be revised on a regular basis. These changes will be implemented in later versions. The described products can be improved and changed at any time without prior notice.

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Manufactured and sold by:

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2. Note

Please read these operating instructions before unpacking and putting the unit into operation. Follow the instructions precisely as described herein.

The instruction manuals on our website www.kobold.com are always for currently manufactured version of our products. Due to technical changes, the instruction manuals available online may not always correspond to the product version you have purchased. If you need an instruction manual that corresponds to the purchased product version, you can request it from us free of charge by email (info.de@kobold.com) in PDF format, specifying the relevant invoice number and serial number. If you wish, the operating instructions can also be sent to you by post in paper form against an applicable postage fee.

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

The devices are only to be used, maintained and serviced by persons familiar with these operating instructions and in accordance with local regulations applying to Health & Safety and prevention of accidents.

When used in machines, the measuring unit should be used only when the machines fulfil the EC machinery directive.

3. Instrument Inspection

Instruments are inspected before shipping and sent out in perfect condition.

Should damage to a device be visible, we recommend a thorough inspection of the delivery packaging. In case of damage, please inform your parcel service / forwarding agent immediately, since they are responsible for damages during transit.

Scope of delivery:

The standard delivery includes:

- Digital Pressure Sensors model: HND-PS/PA

4. Regulation Use

Any use of the device, which exceeds the manufacturer's specification, may invalidate its warranty. Therefore, any resulting damage is not the responsibility of the manufacturer. The user assumes all risk for such usage.

The pressure sensors are designed for the connection to a hand-held instrument of the following types: HND-P105, HND-P210, HND-P215 The sensors have following application areas:

- Air, aggressive gases
- Water, aggressive media, etc.

5. Operating and Maintenance Advice

- a) You must only use the sensor with suitable devices! Usage of other devices may result in destruction of sensor and device.
- b) Treat sensor and device carefully. Use only in accordance with above specification (do not throw, hit against, etc.). Protect plug from soiling.
- c) To disconnect pressure sensor adapter cable from the device do not pull at the cable but at the plug (to open lock). When connecting the sensor make sure that arrows are pointing upwards and that plug is entered into device socket centrally. Do not twist plug when entering socket. If plug is entered correctly, it will slide in smoothly. If plug is twisted or entered incorrectly the connection pins of the plug can be spoilt by bending or broken => Plug can no longer be used and connecting cable needs to be replaced.
- d) **HND-PS...** = relative pressure sensor.

Caution: The pressure compensation hole has to be kept clean! It is placed at the back part of the housing. Do not cover with stickers or similar things!

e) Instructions for mounting:

- When mounting the instrument, ensure that the sealing faces of the instrument and the measuring point are clean and undamaged.
- Screw in or unscrew the instrument only via the flats using a suitable tool (fixed spanner, wrench size 27 mm) and the prescribed torque. The appropriate torque depends on the dimension of the pressure connection and on the sealing element used (form / material). A maximum torque of 50 Nm must not be exceeded. Do not use the case as working surface for screwing in or unscrewing the instrument.
- When screwing the transmitter in, ensure that the threads are not jammed.
- As described in the installation example the sealing must be made at the face surface of the pressure connection.



6. General Safety requirements

This device has been designed and tested in accordance with the safety regulations for electronic devices. However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advices given in this manual will be adhered to when using the device.

1. Trouble-free operation and reliability of the device can only be guaranteed if the device is not subjected to any other climatic conditions than those stated under "specification".
2. If the device is transported from a cold to a warm environment condensation may result in a failure of the device. In such a case make sure the device temperature has adjusted to the ambient temperature before trying a new start-up.
3. If there is a risk whatsoever involved running it, the device has to be switched off immediately and to be marked accordingly to avoid restarting.
Operator safety may be at risk if:
 - There is visible damage to the device.
 - The device is not working as specified.
 - The device has been stored under unsuitable conditions for a longer time.In case of doubt, please return the device to manufacturer for repair or maintenance.
4. **Warning:** Do not use this product as safety or emergency stop device or in any other application where failure of the product could result in personal injury or material damage. Failure to comply with these instructions could result in death or serious injury and material damage.
5. **Any changes or repair of the device is not allowed. Please return the device to the manufacturer for repair or maintenance.**

7. Technical Information

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

8. Order Codes

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

9. Dimensions

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

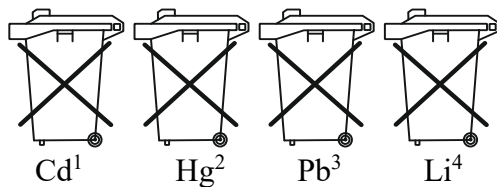
10. Disposal

Note!

- Avoid environmental damage caused by media-contaminated parts
- Dispose of the device and packaging in an environmentally friendly manner
- Comply with applicable national and international disposal regulations and environmental regulations.

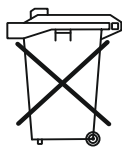
Batteries

Batteries containing pollutants are marked with a sign consisting of a crossed-out garbage can and the chemical symbol (Cd, Hg, Li or Pb) of the heavy metal that is decisive for the classification as containing pollutants:



1. „Cd" stands for cadmium
2. „Hg" stands for mercury
3. „Pb" stands for lead
4. „Li" stands for lithium

Electrical and electronic equipment



11. EU Declaration of Conformance

We, KOBOLD Messring GmbH, Nordring 22-24, 65719 Hofheim, Germany, declare under our sole responsibility that the product:

Digital Pressure Sensors model: HND-PS19...PS23 and PA20...PA23

to which this declaration relates is in conformity with the following EU directives stated below:

2014/30/EU	EMC Directive
2014/68/EU	PED (Module A, internal control of production)
2011/65/EU	RoHS (category 9)
2015/863/EU	Delegated Directive (RoHS III)

Also, the following standards are fulfilled:

EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements

EN 61326-2-3:2013 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning

EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Hofheim, 10 October 2023



H. Volz
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