

IKA 500 HD

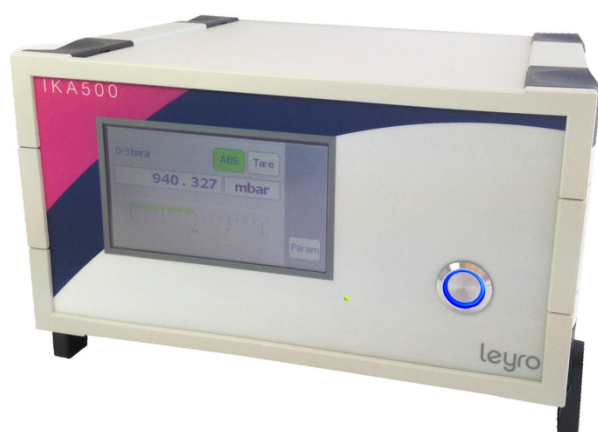
The precision pressure indicator IKA 500 HD is equipped with up to two precision modular sensors (in two separate channels).

Measurement accuracy of 0.04% FS From Bar accuracy of 0,% FS across the range.

It is mainly used as a standard / work transfer for calibration response tests of the various pressure measuring instruments. A color touch screen and intuitive navigation guarantee a very simple operation. Especially with the generation of manual pressure, the very high measurement index of this fully digital pressure indicator is an advantage, since the pressure changes in the measurement system are indicated almost in real time. The user is able to create their own software programs.

For the integration in existing systems of an RS-232 port, Ethernet or optionally an IEEE-488.2 interface or an analog output of 0 - 1/5/10 V or 4 - 20 mA are available as an option.

Fully mobile or stationary test equipment can be manufactured on request.



APPLICATIONS

Laboratories
Industrial and calibration services
Measurement Calibration
Long-term transmission
Research and Investment

HIGHLIGHTS

Accuracy up to 0.04% FS
Possibility of precision internal sensors
6 digits resolution
Modular design
10 ms approx. Response time

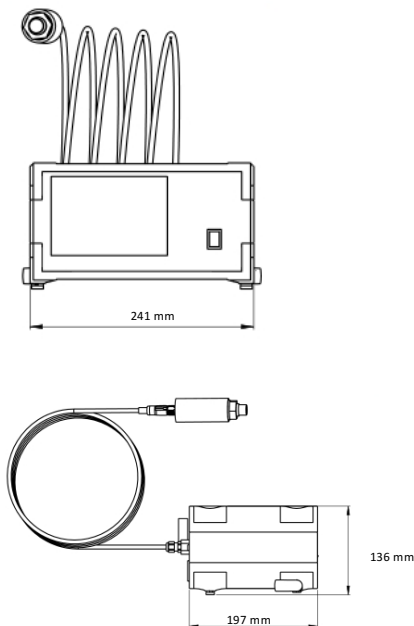
Technical Data

| | |
|----------------------|---|
| Relative Pressure | (Bar rel. 0...1.600 0...2.500 0...4.000 0...5.000 Both sensors can be mounted in internal or external version |
| Precision | 0.04% FS from 2.500 Bar, accuracy of 0.1% |
| Units of pressure | 23 and 1 freely programmable |
| Equipment version | Desktop Optional: rack of 19" of mounting with lateral panels, mounting kit included |
| Weight | Approx. 2 kg. (4.41 lb) |
| Screen resolution | 6 digits |
| Screen division | 1 line per sensor |
| Keyboard | Colour touch screen |
| Response time | Approx. 10 ms. |
| Pressure connections | Number of assimilable sensors 1 (A channel) or 2 (B channel) High pressure female connection M16 x 1.5 Optional: external mounting of 1.5 m.-wire sensors |

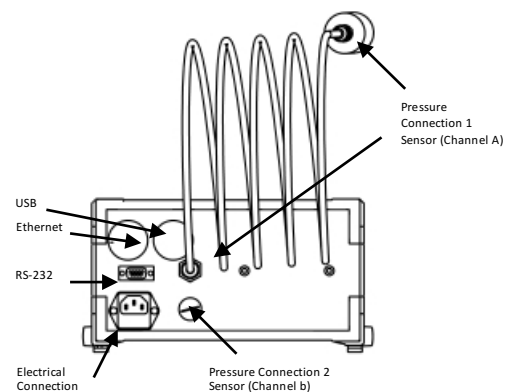
General Data

| | |
|-----------------------------------|--|
| Power Supply | Plug 88 – 264 V AC, 47 – 83 Hz gases |
| Medium | Fluid and/or clean, dry and non-corrosive gases, non-flammable and non-oxidants |
| Overuse Protection | 150% of pressure range largest Optional: external high pressure relief valves |
| Interface | RS-232, Ethernet (Optional: IEEE – 488.2) |
| Range of compensation temperature | +15...+35°C (+59...+95°F) |
| Operating Temperature | +10...+40°C (+50...+104°F) |
| Temperature Storage | 0...+70°C (32...+158°F) |
| Analog Inputs | 4-20 mA ó 0-1 / 5 / 10 V |
| Instructions | IKA 500HD, alternative sets of instructions Alignment of existing main software on request |
| Approvals and Certifications | EMC Directive 2004/108/EC, EN 61 326-1 emission Group 1, Class A and stability (industrial sector); calibration certificate 3.1, ENAC calibration certification / ISO 17025 optional |
| Options | |
| Interface | IEEE-488.2 |
| Analog Output | 0-1 V; 0-5 V; 0-10 V or 4-20mA |
| Output Connection | 24 V cc PWM or TTL level |
| Analog Input | 4-20 mA or 0-10 V (others on request) |

Dimension



Connections



Other Options

- Second integrated sensor (channel B)
- Barometric Reference
- IEEE-488.2 Interface
- Analog output: 0-1 V; 0-5 V; 0-10 V; 4-20 mA
- Output connection: 24 V DC PWM or TTL level
- Calibration certificate ENAC / ISO 17025
- 19" rack mount
- Relief Valves external pressure

Delivery Supply

Precision pressure controller power
Power supply wire 1.5 m.
Instructions manual
Calibration certificate 3.1