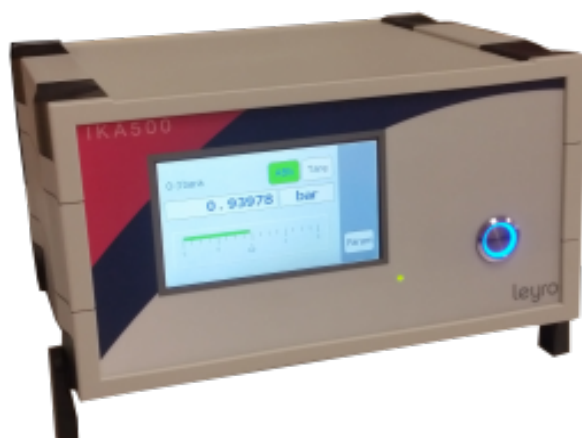


IKA 500

The precision pressure indicator IKA 500 is equipped with up to two modular precision sensors (in two separate channels) and an optional barometric reference. Due to an optionally certified measurement inaccuracy of 0.01 % FS, differential pressure of ± 0.03 % FS of the entire measuring chain, it is primarily used as transfer / working standard for the testing resp. calibration of diverse pressure measuring instruments.

A colour touch screen and intuitive navigation ensure very easy operation. Especially with manual pressure generation, the very high measuring rate of this fully digital pressure indicator is of advantage, as pressure changes in the measuring system are indicated nearly in real time. Besides the optionally available calibration software DCal, which allows for comfortable calibration of pressure measuring instruments, including automatic creation of test certificates, the user is able to create own software programmes. For integration in existing systems an RS-232, Ethernet or optionally an IEEE-488.2 interface or an analogue output 4 – 20 mA are available.

Completely mobile or stationary test equipment can be manufactured upon request.



APPLICATIONS

Laboratories
 Service industries and calibration services
 Research and development
 Transmitter calibration
 Long-term measurement

HIGHLIGHTS

Accuracy up to 0.008 % FS
 Internal precision sensors possible
 6 digits resolution
 Modular design
 Approx. 10 ms of response time

Technical data

Gauge pressure	(bar rel.)	-1 ... 1	0 ... 2	-1 ... 3	0 ... 5	-1 ... 10	0 ... 20	-1 ... 30	0 ... 60	-1 ... 100	0 ... 200	0 ... 40	0 ... 1,000
Absolute pressure	(bar abs.)	0 ... 1	0 ... 3	0 ... 10	0 ... 30	0 ... 100	0 ... 300	0 ... 700	0 ... 1,000				
Differential pressure	(mbar)	± 30	± 100	± 300									
Function	barometric reference is required for the change of absolute pressure \Leftrightarrow gauge pressure												
Pressure range	800 mbar to 1,200 mbar abs.												
Accuracy	0.01% FS (Optional 0.008 % FS (optional))												
Pressure units	23 and 1 freely programmable												
Instrument version	desktop case optional: 19" rack mounting with side panels incl. mounting kit												
Weight	approx. 2.0 kg (4.41 lb)												
Display resolution	6 digits												
Screen division	1 line per sensor												
Keyboard	colour touch screen												
Response time	approx. 10 ms												
Connections	amount of assimilable sensors 1 (channel A) or optionally 2 (channel B)												



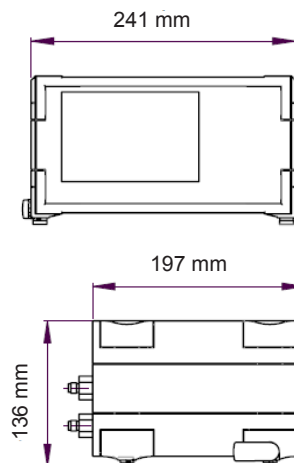
	and / or barometric reference optionally external installation of sensors with 1.5 m cable
Pressure connections	G 1/8" female optional: 6 mm tube fitting or connection adapter
Power supply	auxiliary energy 88 – 264 V AC, 47 – 63 Hz
Medium	clean, dry, non-corrosive, non-combustible and non-oxidising gases
Overage protection	150 % of the largest pressure range optional: external pressure relief valves
Interfaces	RS-232, Ethernet
Compensated temperature range	+15 to +35 °C (+59 to +95 °F)
Operating temperature	+10 to +40 °C (+50 to +104 °F)
Relative humidity	0 to 95 % r. h. (non-condensing)
Storage temperature	0 to +70 °C (32 to +158 °F)
Analogue inputs	4 – 20 mA or 0 – 10 V
Instruction sets	IKA 500, alternative instruction sets possible, alignment to existing HOST software upon request
Approvals and Certificates	EMC-Directive 2004 / 108 / EC, EN 61 326-1 emission (group 1, class A) and stability (industrial sector); calibration certificate 3.1, Optionally calibration certificate ENAC/ ISO 17025

Optional

Interface	IEEE-488.2
Analogue output	0 – 1 V; 0 – 5 V; 0 – 10 V or 4 – 20 mA
Switching outputs	24 V DC PWM or TTL level
Analogue inputs	4 – 20 mA or 0 – 10 V, others upon request

Further options

- Second integrated sensor (channel B)
- Barometric reference
- IEEE-488.2 interface
- Analogue output: 0 – 1 V; 0 – 5 V; 0 – 10 V or 4 – 20 mA
- Switching outputs: 24 V DC PWM or TTL level
- Analogue inputs: 4 – 20 mA or 0 – 10 V, others upon request
- Calibration software DCal
- Calibration certificate ENAC/ ISO 17025
- 19" rack mounting
- Portable case
- Pressure connections:
 - 6 mm tube fitting
 - connection adapter
- External pressure relief valves



Scope of delivery

Precision pressure controller
Mains cable 1.5 m
Operating instructions
Calibration certificate 3.1

