KAO

Professional measuring devices
production and automation

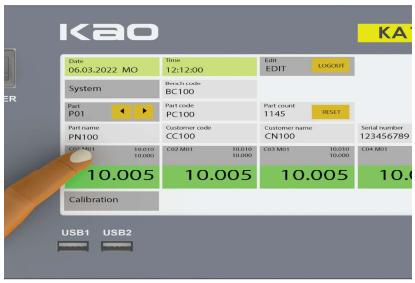
Applications

Automotive industry
Household appliances
defense industry
Hydraulic equipment manufacturing
Serial parts production

KA100

4 Channel pneumatic measuring device

Repeatability	Accuracy	Resolution	Pneumatic measurting
0.001 mm	0.001 mm	0.0001 mm	DIN 2271



Highlights

4 Channel multiple or single display
Resolution 0.1um
Repeatability 0.1um.
Plug and play with built-in regulators
Air closing and opening
One-button calibration
Calibration call functions
100 Master memory
100 Part memory

Data recording and connections

Digital inputs and outputs
USB and RS232 Barcode usage
ethernet cable or wifi
Data transfer via wireless ethernet
Measurement recording with quality parameters
Last 200000 Records internal memory

Usage

7" Capacitive touch screen
Like yout mobil phone
Password protected parameter change
Multi-language support.
Visual and audio warnings
Easy to understand settings

Automation

Digital inputs and outputs
Standard Modbus with ethernet
TCP and industrial protocols
Data sharing with PLC and robots

Air measurement has a rightful place in the production of parts that require precise measurement due to its ease of use and measurement accuracy has achieved. Installation cost is low. Once installed, it is an indispensable benchtop measuring device. The results, control, Its repeatability is excellent. KAO has brought this measurement technique, which is relatively old for its age, to today's technology and provided a strong infrastructure for future generations of users.

If you have a KAO pneumatic measuring device.

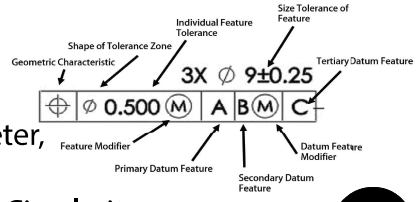
1

All known probes in the world
Probes manufactured by manufacturers
you can use

2

Near to CNC Machine
Without taking up much space due to its size
You can measure mutiple dimensions.

3



Blind inner diameter,
inner diameter,
Outside diameter,Circularity
geometric like taper
including tolerances
+/-80um tolerance
1um resolution in the band
Within +/-20um tolerance band
Results at 0.1um resolution

4

Without effort or training
you can make accurate
measurements

5

When air devices are not used
consumes 13 liters/min/channel of air.
KAO devices this is 3 Liters/min/channel.
In this way, you reduce your carbon
footprint reduces it to some extent,
economically you will make a profit.

6

Just by measuring
ensure traceability
to ensure continuous quality
measurement results to bring
records. Any data cable your device's WIFI
without any investment. It transfers
data to your server with its feature.
These at international standards
stores and, if necessary, another
You can transfer it to media.

7

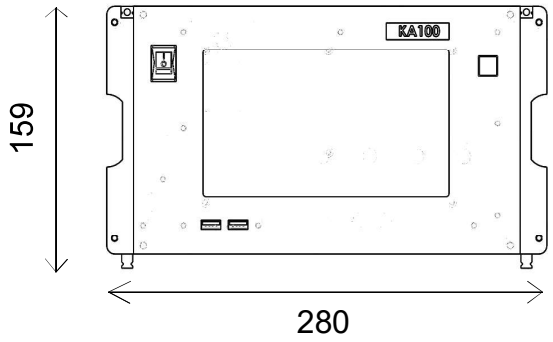
These are just the measurement values.
date, time, part code, name, not with
manufacturer code, name, serial number,
operator code, machine code, control,
production, calibration parameters
for subsequent review by including
You get these ready.
1D or 1D that you will connect to our device
on the part with 2D Barcode devices
you can read it from .

8

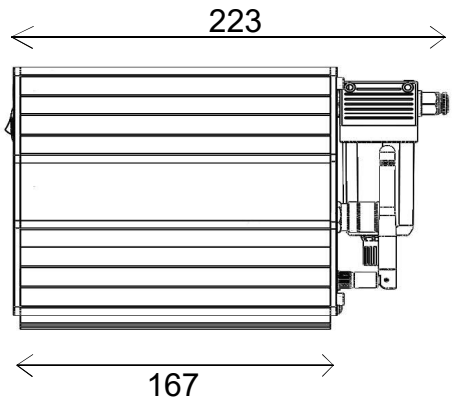
Either the device is not calibrated ?
Calibrated or not ?
If you think about when it is forgotten.
There are precautions on device
Now that the device is turned on
In case result is out-of-tolerance
In a number of pieces you specify.
Calibration is required within a certain period
of time. We brought the regulations.
These were not complied with.
Otherwise, your device does not work.
Also We also record the calibration movement.
Verification after calibration
if necessary We added the obligation
to measure the part.
Of course, all or some of these
settings to do or not to we have available.

In use without operator
The robot will take your part from the machine
and put it into the probe.
At the same time, your measurement takes place
and the digital outputs
Acceptance or rejection signals are given.

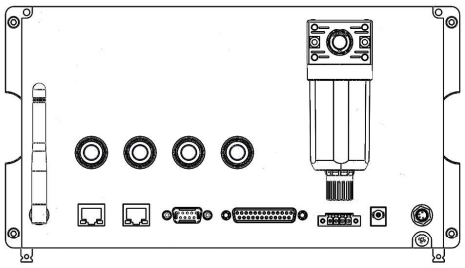
Front view



Side view



Rear view



Technical specifications

Max -Min master	±10µm	±20µm	±40µm	±80µm
Resolution	0.1µm	0.1µm	0.1µm	0.1µm
Accuracy	±0.5µm	±1µm	±1.5µm	±2µm
Repeatability	±0.5µm	±1µm	±1.5µm	±2µm
Channel count	4			
Dimension count	4			
Part memory	100			
Master memory	100			
Air pressure	3.5 – 7 Bar			
Air connection	Automatic for tube 5/8mm			
Çalışma gerilimi	24VDC-1.5A			
Boyutlar (mm)	280 x 160 x 210			

Builtin functions

Automatic channel display
Automatic air shut off
Ovality measurement
Calibration programming
Multi-parameter measurement recording

Aksesuarlar

Foot pedal
3 button remote control

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