



COMPANY PROFILE



PT. Instrumen Indo Utama

I-Repair
I-Maintenance
I-Workshop
I-Lab

Jl Baranangsiang III, No.7 RT05/08
Kel. Tegallega, Kec. Bogor Tengah, Kota
Bogor 16129

0877-7071-2530
sales@instrumindo.com





TATA NILAI

1

EFISIENSI

Memberikan pelayanan terbaik agar pelanggan dapat efisiensi anggaran.

2

KOMUNIKASI

Berdiskusi untuk kemajuan bersama.

3

EMPATI

Memahami apa yang diperlukan oleh pelanggan.



VISI DAN MISI

1

VISI

Perusahaan terpercaya dalam bidang jasa efisiensi dan teknologi laboratorium.

2

MISI

- Meningkatkan nilai dan citra perusahaan yang positif dan kompeten.
- Memberikan jasa layanan yang mengutamakan kepuasan pelanggan.



PRODUK DAN JASA

PT. Instrumen Indo Utama adalah perusahaan yang bergerak di bidang penjualan, perawatan serta perbaikan alat laboratorium. Kami menawarkan berbagai produk dan jasa unggulan, antara lain adalah:



I-REPAIR & I-MAINTENANCE

Layanan perbaikan alat-alat laboratorium dan industri, memastikan setiap peralatan berfungsi optimal kembali dan pemeliharaan berkala untuk menjaga kinerja peralatan tetap prima dan memperpanjang umur pemakaian alat.



I-WORKSHOP

Layanan pabrikasi alat laboratorium sesuai dengan request customer.



I-LAB

Penjualan alat laboratorium.



I-REPAIR & I-MAINTENANCE

Kedua layanan ini dirancang untuk memberikan efisiensi, keamanan, dan kenyamanan bagi operasional laboratorium dan industri Anda.



I-REPAIR

I-MAINTENANCE

Layanan i-Repair dan i-Maintenance merupakan jasa perbaikan alat laboratorium. Tujuan i-Repair dan i-Maintenance adalah agar alat laboratorium yang rusak dapat diperbaiki dan berfungsi kembali.



Water Purifier



Vaccum Pump



Timbangan Duduk



Spektrometer



pH Meter



Oven



Hotplate



Hotplate Stirrer



COD Reaktor

I-REPAIR

I-MAINTENANCE

3 Modul Utama i-Maintenance:

1. **Basic Preventif**, Pengecekan parameter, part dan cleaning.
2. **Modifikasi**, Change Request.
3. **Otomatisasi**, Sinkronisasi internet dan sensor.



Buret Digital



Analytical Balance



Lemari Asam



Chiller



Blower

Manfaat i-Maintenance:

- 1 Memperpanjang masa pemakaian alat.
- 2 Memaksimalkan fungsi alat.
- 3 Meminimalisir terjadinya resiko kecelakaan kerja.



I-WORKSHOP

Layanan i-Workshop merupakan layanan pabrikasi alat laboratorium yang kami lakukan di workshop. Alat-alat tersebut kami rakit dan mengikuti request atau kebutuhan customer.



Climatic Chamber



Laminar Air Flow



Lemari Asam dan Scrubber



Lemari Asam



Lemari Penyimpanan Bahan Kimia



Meja Laboratorium



“

i-WORKSHOP

Layanan pabrikasi ini dirancang untuk memenuhi kebutuhan unik setiap pelanggan, baik dalam hal desain, fungsi, maupun kapasitas alat.



Kami turut menjual berbagai jenis timbangan untuk kebutuhan laboratorium, produksi dan gudang seperti timbangan analitik, timbangan lantai dan sebagainya dengan harga yang kompetitif.



CPS PLUS
SERIES/CI-200A

- Hydraulic lift and low
- Auto power off function
- LED lamp for battery status
- 2 Storage boxes
- High-visibility LED display
- 10 Numerics keys & 3 functions keys (full rubber type)
- Built-in thermal printer
- Durable polyurethane wheels
- Solid and optimum design for logistics

Model Name		CPS ^{PLUS} -1			CPS ^{PLUS} -2		
Size	Type	A	B	C	A	B	C
	W(mm)	560	620	705	560	620	705
	L(mm)	1060	1080	1200	1000	1030	1200
Capacity (kg)		1000			2000		
Readability (kg)		0.5			1		
Overload Protection (kg)		1500			2500		
Weight Display		6 digits LED (height: 25mm)					
Power Supply		DC 6V/5Ah Battery (DC 12V Adapter)					
Operating Time		100 hours (continuous usage)					
Battery Charging Time		12 Hours					
Operating Temp.		-20 C - 40 C					
Option		Thermal Printer					

Cost Effective Solution to Weight On The Go!

VEHICLE WEIGHING SCALE
RW-P



Industrial Weighing Solution



- Easy-to-carry portable type
- Easy to measure small/large size vehicle
- Sandperment structure made for aluminum
- High accuracy & slim shape
- Possible to display weight of each wheel or of all wheels
- Used for finding over-loaded vehicle and weighing test when car is let out

OPTION > DUMMY PLATE

Model	RW-05P	RW-10P	RW-15P	RW-20P
Max Capacity(kg)	5000	10000	15000	20000
Readability(kg)	5	5	5	5
Dimension (mm) (W x D x H)	100 x 400 x 30	100 x 600 x 30		
Product weight(kg)	15.4	30.2		
Capacity	1.5	3.4		
Dummy plate(kg)	-	11.3		

Model	RW-260 1P
Operating power	Battery operation (DC6V/5AH/6Z ER)
Power source	AC 110/220V, 50/60Hz
Display type	LCD with back light
Printer equipment	Optional
Product weight	6.3kg

I-LAB

Counting & Percent mode Supported



Easy operation with 8 function keys



Rechargeable battery



HD SERIES

High Resolution Bench Scale

● FEATURE

High-Resolution Weighing (1/3.000-1/15.000)

Counting & Percent mode support

Easy operation with 8 function keys

Rechargeable battery



INDUSTRIAL WEIGHING SOLUTION

Model HD series

● Specification

Model	91	91.1	210
Capacity (kg)	5	50	20
Resolution	100.000	10.000	10.000
Internal Resolution	1000.000		
Display Size	120		
Weight Unit	kg/g		
Zero Error	±0%		
Temp Range	Full Capacity by Substrate + 2.00000		
Stabilization Time	500ms		
Operation Temperature	0°C - 50°C		
Power	AC Adapter (24000mA) Internal rechargeable rechargeable battery		
Battery Life	80 hours continuous use with 12 hour recharge time		
Self-Heated Capacity	10% of capacity		
Scale Weighted	10		
Dimensions	400(A) x 300(B) x 100(H)		
Dimensions	400(A) x 300(B)		

● Specification

Platform size (mm)	Capacity (kg)	Readability (kg)
1000 x 1000	500	0.2
1000 x 1000	1000	0.5
1200 x 1200	500	0.5
1200 x 1200	1000	0.5
1200 x 1500	1000	1
1500 x 1500	1000	0.5
1500 x 1500	2000	1
1500 x 1500	3000	1
1500 x 1500	5000	1
1500 x 2000	1000	1
1500 x 2000	2000	1
1500 x 2000	3000	2
1500 x 2000	5000	2
2000 x 2000	1000	1
2000 x 2000	2000	1
2000 x 2000	3000	2
2000 x 2000	5000	2
2000 x 3000	2000	2
2000 x 3000	3000	2
2000 x 3000	5000	2

HD SERIES

High Resolution Floor Scale



● FEATURE

High-Resolution Weighing (1/3.000-1/15.000)

Counting & Percent mode Support

Easy operation with 8 function Keys

Rechargeable Battery

INDUSTRIAL WEIGHING SOLUTION



I-LAB



Honeywell BW™ Ultra Multi-Gas Detector.

- H₂S
- CO
- O₂
- LEL
- VOC
- CO₂
- SO₂
- NH₃
- H₂
- Cl₂
- NO₂
- HCN
- NO

Honeywell

THE POWER OF CONNECTED

Extra Detection. Ultra Protection.

● FEATURE

- Tamper-proof operation with one button operation
- Intuitive large dot matrix display giving clear readings
- Scratch-resistant display protector
- Honeywell Connected Worker compatible
- Ergonomically designed for easy use
- Quick responding sensor technology



● SPECIFICATION

GASES	STANDARD MEASURING RANGE	RESOLUTION
OXYGEN (O ₂)	0-25% vol	0.1% vol
COMBUSTIBLE GASES (LEL)	0-100% LEL	1% LEL
COMBUSTIBLE GASES (H ₂)	0-5.00% vol	0.01% vol
HYDROGEN SULFIDE (H ₂ S)	0-500 ppm	1 ppm / 0.1 ppm
CARBON MONOXIDE (CO)	0-2000 ppm	1 ppm
CARBON MONOXIDE (LOW NO. MODE)	0-1000 ppm	1 ppm
SULFUR DIOXIDE (SO ₂)	0-500 ppm	0.1 ppm
HYDROGEN FLUORIDE (HF)	0-2000 ppm	1 ppm
CARBON DIOXIDE (CO ₂)	0-50,000 ppm	10 ppm
AMMONIA (NH ₃)	0-500 ppm	1 ppm
VOLATILE ORGANIC COMPOUNDS (VOC)™	0-1000 ppm	1 ppm
CHLORINE (CL ₂)	0-20 ppm	0.1 ppm
NITROGEN DIOXIDE (NO ₂)	0-50 ppm	0.1 ppm
HYDROGEN CYANIDE (HCN)	0-500 ppm	0.1 ppm
NITROGEN MONOXIDE (NO)	0-200 ppm	1 ppm



Simple operation, with SmartSample pump

Honeywell BW™ Max XT II Multi-Gas Detector

SENSOR SPECIFICATIONS		
GASES	STANDARD MEASURING RANGE	RESOLUTION
HYDROGEN SULFIDE (H ₂ S)	0-200 ppm	1/0.1 ppm
CARBON MONOXIDE (CO)	0-1000 ppm	1 ppm
COMBUSTIBLE (LEL)	0-100% vol	0.1% vol
COMBUSTIBLE GASES (H ₂)	0-5.00% vol 0-50% vol	0.01% vol

Honeywell

THE POWER OF CONNECTED

- H₂S** Hydrogen Sulfide
- CO** Carbon Monoxide
- O₂** Oxygen
- LEL** Combustible Gases



Go the distance, and save.

I-LAB



Honeywell BW™ Solo
Serviceable Single-Gas Detector

Serviceable Single-Gas Detector

FEATURE

- Option to activate IntelliFlash™ or non-compliance flash
- Ability to assign detectors to workers and locations
- Easy-to-read display for multiple languages
- Data logging with rolling 24-hour peak reading

SENSOR SPECIFICATION

GASES	STANDARD MEASURING RANGE	RESOLUTION	OPERATING TEMPERATURE
H ₂ (S)	0-200 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
CO (S)	0-2000 ppm	1 ppm	-40°C to +60°C (-40°F to 140°F)
CO (S)	0-50,000 ppm	100 ppm	-40°C to +60°C (-40°F to 140°F)
O ₂ (S)	0-50% v/v	0.1% v/v	-40°C to +60°C (-40°F to 140°F)
O ₂ (AS)	0-30 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
Cl ₂ (AS)	0-1 ppm	0.01 ppm	-40°C to +60°C (-40°F to 140°F)
CO-H (AS)	0-2000 ppm	0.5 ppm	-40°C to +60°C (-40°F to 140°F)
ETO (AS)	0-100 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
H ₂ (AS)	0-1000 ppm	2 ppm	-40°C to +60°C (-40°F to 140°F)
HCl (AS)	0-50 ppm	0.7 ppm	-40°C to +60°C (-40°F to 140°F)
H ₂ (EXT. RANGE) (AS)	0-500 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
HCN (AS)	0-100 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
HF (AS)	0-10 ppm	0.2 ppm	-40°C to +60°C (-40°F to 140°F)
NH ₃ (AS)	0-100 ppm	1 ppm	-40°C to +60°C (-40°F to 140°F)
NH ₃ (EXT. RANGE) (AS)	0-1000 ppm	1 ppm	-40°C to +60°C (-40°F to 140°F)
NO (AS)	0-250 ppm	0.2 ppm	-40°C to +60°C (-40°F to 140°F)
NO ₂ (AS)	0-100 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
O ₂ (AS)	0-1 ppm	0.01 ppm	-40°C to +60°C (-40°F to 140°F)
PH ₃ (AS)	0-5 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
SO ₂ (AS)	0-100 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
H ₂ (AS)*	0-100 ppm	0.1 ppm	-40°C to +60°C (-40°F to 140°F)
CO (AS)*	0-1000 ppm	1 ppm	-40°C to +60°C (-40°F to 140°F)
O ₂ (AS)*	0-50% v/v	0.1% v/v	-40°C to +60°C (-40°F to 140°F)



KERN ABJ 220-4NM
high-quality single-cell weighing system

SPECIFICATION

Measuring System	
weighing capacity (Max)	220 g
readability (d)	0.0001 g
Display	
display type	LCD
Function	
features	PI-220 (900044)
Power Supply	
input voltage (power supply / power) (Max)	90 V - 230 V AC
input voltage (battery / power) (Max)	0 V DC, 3000 mAh
plug in (power supply type)	Power adapter
supplied power supply	Power supply unit

KERN
The bestseller in analytical balances.

STANDARD





I-LAB



KERN ABP 200-SDM

Premium analytical
balance

*Premium analytical balance
with the latest Single-Cell
Generation for extremely rapid,
stable weighing
results*

● SPECIFICATION

Measuring System	
Weighing capacity (Max)	102 g, 220 g
Readability (d)	0.00001 g, 0.0001 g
Units	g mg ct
Display	
Display type	OLED
Functions	
Interface	RS-232 standard USB Host/Master USB Device
Power Supply	
Input voltage power supply / power (Max)	220 V - 240 V AC 50 Hz
Input voltage device / power (Max)	0 V, 1 A
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit

KERN

● SPECIFICATION

Measuring System	
Weighing capacity (Max)	52 g, 220 g
Readability (d)	0.00001 g, 0.0001 g
Units	g ct
Display	
Display type	LCD
Functions	
Interface	RS-232 standard

KERN

*The premium model with
single-cell weighing system*



KERN ABT 220-SDNM

The premium model



LUTRON
Model : RGB-1002
RGB/HSL value, no lighting
material color analysis

Measuring geometry	45°/0° - circular illumination at 45° measurement at 0°
Spectral range	400 nm to 700 nm.
Color sensors	3 color photo transistors: - Red photo transistor - Green photo transistor - Blue photo transistor
Power Supply	DC 9V battery, Alkaline type D06R, MN504PP3; or equivalent. DC 9V adapter input. @ AC/DC power adapter is optional!

Measurement	RGB value R (Red) value: 0 to 1023 G (Green) value: 0 to 1023 B (Blue) value: 0 to 1023	
	HSL value Hue value: 0 to 1000 Saturation value: 0 to 1,000 Luminance value: 0 to 1,000	
Accuracy/ Repeatability @ 23 ± 5°	R (Red) value	± 3
	G (Green) value	± 3
	B (Blue) value	± 3
	Hue value	± 0.01
	Saturation value	± 0.01
	Luminance value	± 0.01
	Repeatability is specified under the same sample (color) 50 times within one minute. Accuracy is specified under other the conditions is additional.	
Optional Accessories	1AC (AC/DC 9V) adapter 1TR102 (color) TRC101-02 1LMB (scale) LMB-03 1Data Acquisition software, 100-1000-000	



LUTRON
Model : YK-2005WA
PH/ORP, DO, CD/TDS
METER

Features

- One meter for multi purpose operation:
PH/ORP, DO, CD/TDS METER
- pH : 0 to 14.00 pH, ORP : ± 1999 mV
- Conductivity : 200 µS/2 mS/20 mS/200 mS
- Dissolved oxygen : 0 to 20.0 mg/L
- ATC (automatic temperature compensation)
- Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger
- Max., Min., Data hold
- RS-232 computer interface
- Optional electrode:
pH, ORP, CD/TDS, DO, ATC probe
- Jumbo LCD display
- DC 1.5V (UM-3, AA) x 4 PCs or
DC 9V adapter in.
- Size : 205 x 76 x 38 mm

I-LAB



Type K Temp. probes (optional)



Features

- Channels (no. 12 channels (CH1 to CH12) temperature measurement.
- Type K thermometer : -300 to 1500 °C
- Type J thermometer : -100 to 1200 °C

Optional Accessories

Type K thermocouple probe
TP-04, TP-02A, TP-05, TP-04

USB cable, USB-01

RS232 cable, LRPCB-02

Data Acquisition software,
SW-L01-WIN

EXCEL data Acquisition software,
SW-C02

AC to DC, DV adapter

Temperature Compensation

Automatic temp. compensation for the type K(J)/E/I/alt thermometer

Data Output

RS-232/USB PC computer interface

*Connect the optional/ RS232 cable LRPCB-02 will get the RS232 plug

*Connect the optional/ USB cable USB-01 will get the USB plug.



Specifications

Measurement Range	-5.000 mG to 5.000 mG
	300.0 uT to 300.0 uT

Resolution	01 mG	- 999.9 mG to 999.9 mG
	1 mG	- 200 mG to 200 mG
	0.01 uT	- 1999 uT to 1999 uT
	0.1 uT	- 200.0 uT to 200.0 uT

Accuracy	$\pm (2\% + 2 \text{ mG})$
	-1,000 mG to 1,000 mG
	-100.0 uT to 100.0 uT

Data Output	RS-232/USB PC serial interface
	*Connect the optional/ RS232 cable LRPCB-02 will get the RS232 plug
	*Connect the optional/ USB cable USB-01 will get the USB plug.

Optional Accessories	RS232 cable, LRPCB-02
	USB cable, USB-01
	Data Acquisition software, SW-L01-WIN



LUTRON Model : SL-4036SD INTEGRATING SOUND LEVEL METER class 1



SD Card real time
data recorder

Accuracy (23 ±5 °C)

(Characteristics of 1/3 OCT frequency weighting network used: AFB 315-2000 / IEC 61672-1:2002 class 1)
Under 94 dB max. signal the accuracy are:

0.1 Hz	±1.0 dB
0.3 Hz	±2.0 dB
1 Hz	±2.0 dB
3.15 Hz	±2.0 dB
10 Hz	±2.0 dB
31.5 Hz	±2.0 dB
100 Hz	±2.0 dB
315 Hz	±2.0 dB
1 kHz	±2.0 dB
3.15 kHz	±2.0 dB
10 kHz	±2.0 dB
31.5 kHz	±2.0 dB
100 kHz	±2.0 dB
315 kHz	±2.0 dB
1 MHz	±2.0 dB

Remark:

The above table was tested under the environmental condition (see item 4.10) at frequency 800 Hz (30-1000 Hz).

Measurement Range

30 - 130 dB

Resolution

0.1 dB



LUTRON Model : LX-1148SD LED LIGHT METER

Measurement	Range	Max. In-range Display
LUX @ auto range	2000 Lux	0 - 1999 Lux
	20000 Lux	1999 - 19999 Lux
	200000 Lux	19999 - 199999 Lux
Foot-candle @ auto range	300 Foot-cd	0 - 299.9 Foot-cd
	3000 Foot-cd	299.9 - 2999.9 Foot-cd
	30000 Foot-cd	2999.9 - 29999.9 Foot-cd

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)
LIGHT METER



LUTRON Model : AM-4234SD HOT WIRE ANEMOMETER

Air Temperature

Measuring Range	0°C to 50°C (32°F to 122°F)
Resolution	0.1°C / 0.1°F
Accuracy	±0.2°C, ±0.3°F

Air Flow

Measurement	Range	Resolution
CMH per 10cm ²	0 to 10000 CMH	0.001 to 1 CMH
CFM per 10ft ²	0 to 10000 CFM	0.001 to 1 CFM

Measurement	Unit
(CMH per 10cm ²) (CFM per 10ft ²)	0.001 to 91.000 m/s ² 0.01 to 520.00 ft/s ²

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

Air Velocity

Measurement	Range	Resolution	Accuracy
m/s	0.2 to 99.9 m/s	0.01 m/s	±1.0% + 1 reading
ft/min	0.7 to 223.1 ft/min	0.1 ft/min	
km/h	0.7 to 355.3 km/h	0.01 km/h	±1.0% + 1 reading
mi/h	0.4 to 221.9 mi/h	0.01 mi/h	
Knot	0.4 to 150.0 Knot	0.01 Knot	±1.0% + 1 reading
ft/min	0.1 to 22.3 ft/min	0.1 ft/min	

@ ±0.1 m/s, 0.3 km/h, 0.2 ft/min, 20 ft/min

Note:
+1% - includes zero-point
Offset - Not per IEC61326
method - includes zero

±1% - includes per foot
offset - includes zero-point
method - includes zero



I-LAB



PC software included / Li-ion battery / 3 different color spaces / Determines reference values to compare to samples / White

The handheld portable digital colorimeter PCE-CSM 1 was developed for quality control and offers a high accuracy. When using the colorimeter, you can choose between different color spaces (CIE L*a*b*C*h, CIE L*a*b* and CIE XYZ). After a measurement with the colorimeter, the reading can be used as a reference value while other readings can be recorded as a sample and later be compared to the reference value easily.

In addition to the individual color space coordinates, the deviation between the reading is also displayed. When using the colorimeter, it is possible to store up to 100 reference values and up to 20,000 samples on the device. The measured data can also be transferred to a PC via the USB interface. A special PC software is included in the package.

- CIE L*a*b*C*h, L*a*b* and XYZ
- Automatic white and black calibration
- Determines reference values to compare to samples
- Rechargeable Li-ion battery
- Measuring of different colors
- Incl. PC software
- Suitable for many different surfaces
- 8°/d geometry diffused illumination integrating sphere system illuminates sample from 8-degree angle
- Easy to use
- 6 mm sample aperture



- Handheld stroboscope with LED technology (no need to change light bulbs)
- 60 to 99,990 flash
- Possibility to multiply and divide frequency by two
- Possibility to work with battery up to 11 h
- 2 bright LEDs (8400 lux @ 50 cm)
- One hand use
- Power supply by standard batteries
- Compact housing, lightweight
- Tripod Connection
- Protective cover included in delivery

Specifications

Range	60 ... 99,990 r.p.m 1 ... 1,666 Hz
Display	8 digits LCD
Impulses/Flash	Possibility of duplication and division/fine tuning
Offset	Yes, 360°
Accuracy	
60 ... 17,500	±1 LSD
17,500 ... 99,990	±0.001%
Light source	LED
Light intensity	8400 lux (50 cm distance, 6,000 fpm)
Battery	2 x AA batteries
Operating time	Brightest mode: 8 h, power saving mode: 11 h
Environmental conditions	50 ... 50°C / 14 ... 122°F
Dimensions	124 x 71 x 33 mm / 4.9 x 2.8 x 1.3 in
Weight	173 g / 1 lb



I-LAB



MAGNETOMETER PCE-MFM 3500

GAUSS METER WITH EXTERNAL SENSOR



The gauss meter is a reliable measuring device for measuring the existing magnetic field. This gauss meter is suitable for measuring both static (permanent magnets) and alternating magnetic fields. The flat probe of the external probe on the Milli-Gauss meter allows the operator to perform measurements even in very small openings. The measuring range of up to 30,000 G in the gauss meter covers a wide range of measuring tasks. In addition to measuring the magnetic field, the gauss meter also measures the temperature at the same time. The Milli-Gauss Meter also has an adjustable alarm function. This adjustable alarm function in the gauss meter warns the operator immediately as soon as a set measured value is exceeded.

SPECIFICATIONS

Measuring function DC Milli Tesla			Measuring function DC Gauss		
Measuring range	Resolution	Accuracy	Measuring range	Resolution	Accuracy
300.00 mT	0.01 mT	± 14% + 10 Dgtl	3,000.0 G	0.1 G	± 14% + 10 Dgtl
2,000.0 mT	0.1 mT	± 14% + 10 Dgtl	20,000 G	1 G	± 14% + 10 Dgtl
2,000.1 - 3,000.0 mT	0.1 mT	N / A	20,000.1 - 30,000 G	1 G	N / A
Measuring function AC milli Tesla			Measuring function AC Gauss		
Measuring range	Resolution	Accuracy	Measuring range	Resolution	Accuracy
150.00 mT	0.01 mT	± (5% + 20 Dgtl)	1,500.0 G	0.1 G	± (5% + 20 Dgtl)
1,500.0 mT	0.1 mT	± (5% + 20 Dgtl)	15,000 G	1 G	± (5% + 20 Dgtl)

The accuracies refer to the following ambient conditions:
23°C / 73.4°F ± 5°C / 4°F, > 80% RH



ULTRASONIC PCE-TDS 100HS

FLOW METER

The transit-time principle requires pipes to be full and have no bubbles and no particles.

Note: To transfer data to a computer, SOFT-PCE-TDS software is required. The software is sold separately - see accessories for details.

Each PCE-TDS series meter is assembled by PCE Instruments in Germany and is factory-calibrated (without any documentation). The reference display of the in-house test stand used by PCE for calibration has a valid DAkkS calibration certificate. This ensures traceability to the Physikalisch-Technische Bundesanstalt (PTB) German national standard. Please note that the meter's measured values depend on the pipe geometry, material and coating, the medium type, temperature and speed, and the sensor type and measuring method.

SPECIFICATIONS

Handheld measuring range	-52 ... 52 m/s, -105 ... 105 ft/s	Flow Units	Cubic meter [m ³]
Resolution	0.0001 m/s, 0.00033 ft/s		Liter [l]
Accuracy for DN ≥ 50 mm:	± 1.5% of measured value		Gallon (USA) [gal]
for DN < 50 mm:	± 3.5% of measured value		Imperial gallon (UK) [gal]
Reproducibility	± 1.0% of measured value		Million USA gallon [mg]
Media	All liquids with an impurity < 5% and a flow > 0.05 m ³ /h		Cubic foot [cf]
			Barrel (USA) [bbl]
			Imperial barrel (UK) [bbl]
			Oil barrel [ob]


I-LAB


Measuring range extension for unrestricted measurement at high gas concentrations

Flue gas analysis with up to 6 gas sensors - freely configurable

Large selection of probes

Bluetooth interface

Convenient measurement data management

TUV-tested /EN norm

Technical data

	Measuring range	Accuracy (1 digit)	Resolution	Adjustment time t_{90}
O₂ measurement	0 to 25 Vol. %	±0.2 Vol. %	0.01 Vol. %	< 20 sec
CO measurement (H₂ compensated)	0 to 10.000 ppm	±0 ppm or ±0% of m.v. (0 to 200 ppm) ±20 ppm or ±2% of m.v. (200 to 2.000 ppm) ±0% of m.v. (2.000 to 10.000 ppm)	1 ppm	< 40 sec
CO_{tot} measurement (H₂ compensated)	0 to 500 ppm	±2 ppm (0 to 39.9 ppm) ±5% of m.v. (remaining range)	0.1 ppm	< 40 sec
		<small>± accuracy to 200 ppm corresponds additional temperature coefficient ± 0.01 %/°C</small>		
NO measurement	0 to 4.000 ppm	±5 ppm (0 to 99 ppm), ±1% of m.v. (100 to 1.999 ppm) ±0% of m.v. (2.000 to 4.000 ppm)	1 ppm	< 30 sec
NO_{tot} measurement	0 to 300 ppm	±2 ppm (0 to 39.9 ppm) ±5% of m.v. (remaining range)	0.1 ppm	< 30 sec
NO_x measurement*	0 to 500 ppm	±0 ppm (0 to 199 ppm) ±5% of m.v. (remaining range)	0.1 ppm	< 40 sec
SO₂ measurement*	0 to 5.000 ppm	±0 ppm (0 to 99 ppm) ±0% of m.v. (remaining range)	1 ppm	< 40 sec
Temperature meas. <small>Probe type type 1700-10</small>	-40 to +1.200 °C	±0.5 °C (0 to +99 °C) ±0.5 % of m.v. (remaining range)	0.1 °C	
Draught measurement	-40 to +40 hPa	±0.05 hPa (2.99 to -0.99 hPa) ±1.5 % of m.v. (remaining range)	0.01 hPa	
Differential pressure measurement	-200 to 200 hPa	±0.3 hPa (-49.9 to 49.9 hPa) ±1.5 % of m.v. (remaining range)	0.1 hPa	
Absolute pressure measurement	600 to +1.150 hPa	±0 hPa	1 hPa	
Derived parameters <small>Efficiency</small> <small>Reactivity</small> <small>Airflow percentage</small>	0 to 120 % 0 to 99.9 % 0 to 99.9 %		0.1 % 0.1 % 0.1 °C	
CO₂ measurement (calculated from O₂)	0 to CO ₂ max.	±0.2 Vol. %	0.1 Vol. %	< 40 sec

O₂

CO

CO_{tot}

NO

NO_{tot}NO_xSO₂



I-LAB



- Testo 400 universal IAQ measuring instrument + testo DataControl software
- Transport case for volume flow measurements
- Connection hose
- Power supply with USB cable and calibration protocol

General Measurement menus

Colour graphic display	HD display
Operation	SmartTouch
Camera	Rear camera: 8.0 MP Front camera: 5.0 MP
Magnets on the rear	✓
Integrated differential pressure sensor	High-precision and position-independent
Integrated absolute pressure sensor	Integrated absolute pressure sensor
Compatible with the new Testo probe portfolio	with cable 2x with Bluetooth® 4x
Thermocouple Type K connection	2x
Intelligent calibration concept	✓
Zero-error display: Adjustment function at up to 6 measuring points	✓

Measurement data management

Internal memory (number of measurement values)	1,000,000
Customer and measuring point management	✓
PC software for analyzing, archiving and documenting measurement data	✓
Personalized measurement protocols (including own logo)	✓
Integrated camera for on-site documentation	✓
On-site printing	✓
Export formats	CSV, PDF, JSON via PC software or directly from the measuring instrument (e-mail or Bluetooth)

Volume flow measurement	✓
Volume flow measurement in accordance with EN 12599 (including measurement uncertainty) and ASHRAE 111	✓
Pitot tube measurement	As from 985 lpm
Outlet measurement with funnel	✓
Volume flow measurement using K factor (differential pressure)	✓
Turbulence measurement in accordance with EN ISO 7730	At 3 heights at the same time
PMV/PPD measurement in accordance with EN ISO 7730 and ASHRAE 55	✓
Logging mode	✓
Stand-alone, configurable IAQ data logger	✓

Unique calibration service



All from one source:
New instrument and calibration directly from Testo

Indirect test equipment management:
From the organization to the pick up and delivery service to calibration

Broad service portfolio:
Over 200 calibration procedures according to ISO 17025

Independent of manufacturer:
Calibration of measuring instruments from all manufacturers



I-LAB



TESTO 552

DIGITAL VACUUM GAUGE WITH BLUETOOTH



- Highly accurate and reliable measurement results
- Measurement data monitoring via testo Smart App
- Measurement data dispatch via testo Smart App
- Measurement of the evaporation temperature of H₂O
- Optical alarm when a limit value is exceeded
- Extremely robust and water/dirt resistant (IP 42)
- Can be used for applications with A2L refrigerant, taking into account the relevant legislation, norms and guidelines for refrigeration systems

Sensor Type	Pirani Sensor
Vacuum measuring range	0 to >26.66 mbar / 0 to 20 000 microns
Accuracy vacuum if digit bit +22 °C	±10 microns + 10 % of mvy (100 to 1 000 microns)
Vacuum resolution	1 micron (0 to 1 000 microns) 10 microns (1 000 to 2 000 microns) 100 microns (2 000 to 5 000 microns) 500 microns (5 000 to 10 000 microns) 5 000 microns (10 000 to 20 000 microns)
Overload vacuum	absolute: 6 bar / 87 psi relative: 5 bar / 72 psi



TESTO 760-1/-2/-3

DIGITAL MULTIMETER

- Easy, modern operation with function keys instead of a dial
- Measurement parameter detection and selection via the socket assignment
- Prevents incorrect settings
- True root mean square measurement - TRMS
- Large, backlit display

Technical data	testo 760-1	testo 760-2	testo 760-3
True RMS			
Basic accuracy	0.4 %		0.1 %
Voltage measuring range	0.1 mV to 580 V AC/DC		0.1 mV to 1 000 V AC/DC
Current measuring range	1 mA to 10 A AC/DC	0.1 µA to 10 A AC/DC	
Resistance measuring range	0.1 to 40 MΩ	0.1 to 99.9 MΩ	
Frequency measuring range	0.001 kHz to 50 kHz	0.001 kHz to 50 kHz	0.001 kHz to 80 MHz
Capacitance measuring range	0.001 nF to 100 µF	0.001 µF to 33 000 µF	0.001 nF to 99 000 µF
Temperature measuring range	—	-20 to +200 °C	
Continuity testing			
Diode test			
Display (counts)	4 000		6 000
Measurement category	CAT IV 300 V CAT III 600 V		CAT III 600 V CAT III 1 000 V
Protection class		IP 64	
Operating temperature		-10 to +50 °C	
Storage temperature		-15 to +60 °C	
Dimensions		50 x 84 x 40 mm (D x W x H)	
Weight		300 g	
Authorizations		CE, CA, CE	
Standards		EN 61326-1	



I-LAB



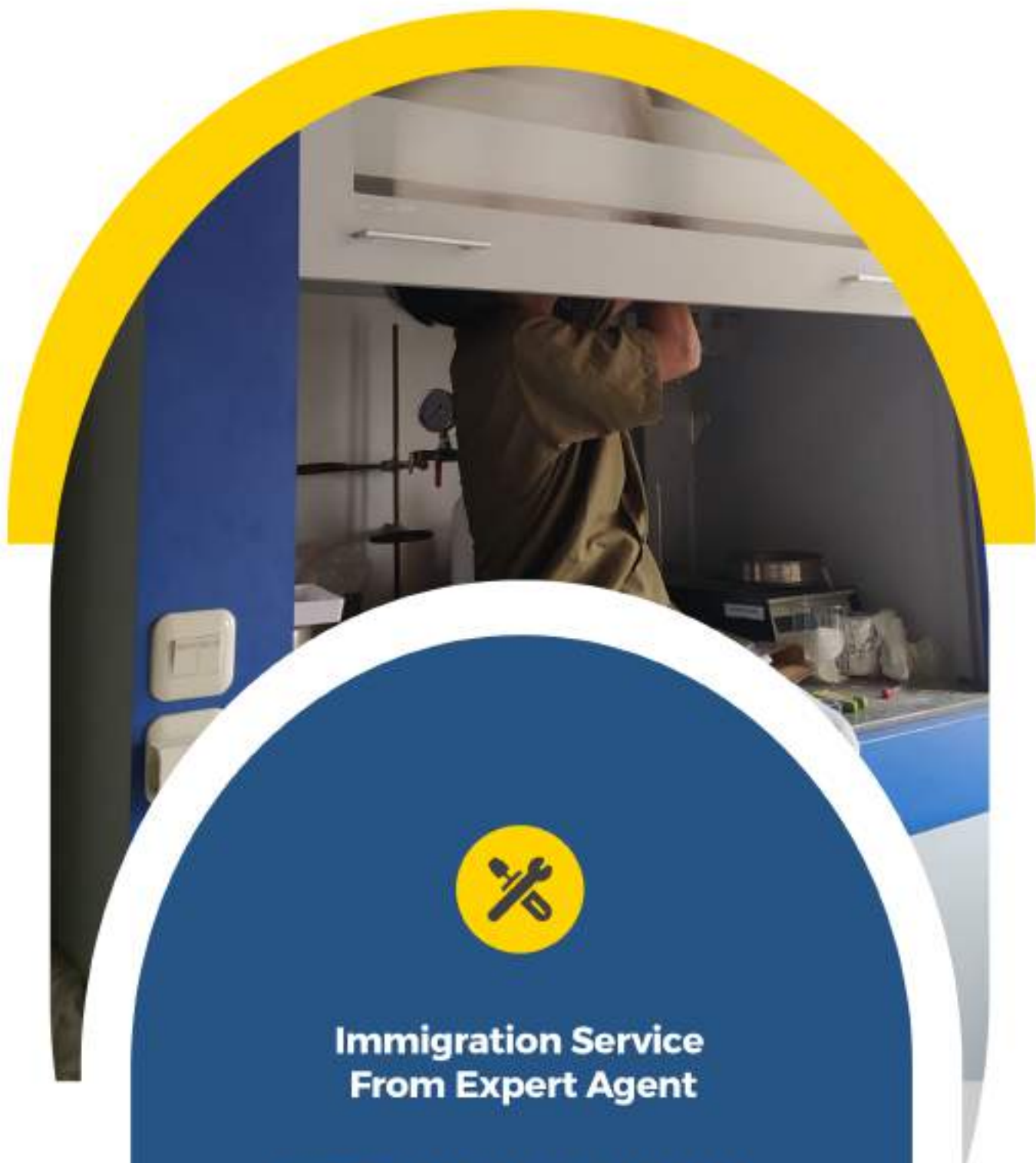
**Infrared resolution 160 x 120 pixels
with testo SuperResolution technology 320 x 240 pixels**
Thermal sensitivity (NETD) of < 0.18 °F (0.1 °C) (100 mK)
Automatic detection of hot and cold spots
testo ScaleAssist for comparable images in building thermography
IFOV warmer for displaying the measurement spot size

Technical data

Infrared resolution	160 x 120 pixels
Thermal sensitivity (NETD)	< 0.18 °F (0.1 °C) (100 mK)
Field of view/min. focusing distance	31° x 25° / = 1.6 ft (0.5 m)
Geometric resolution (IFOV)	3.4 mrad
testo SuperResolution (Pixel/IFOV)	320 x 240 pixels 2.1 mrad
Image refresh rate	9 Hz
Focus	Fixed focus
Spectral range	7.5 to 14 µm



INSTRUMINDO



**Immigration Service
From Expert Agent**

INSTRUMEN INDO UTAMA

**I-REPAIR
I-MAINTENANCE
I-WORKSHOP
I-LAB**