ADK INSTRUMENTS
Where Technology Exists

LABORATORY
TECHNOLOGY

ADK INSTRUMENTS
Where Technology Exists

Setting Standards, Today And Tomorrow

We set new principles in client experience and aim to create future-ready products. We take great pride in our products, that reek of quality, and our industry-best personalized services.

We, at ADK Instruments, work on the most important things that an industrial enterprise needs, which include Industrial Measurement Tools. Our tools are designed with utmost precision, and are tested under rigorous conditions, in order to provide a one-stop, fuss-free solution to all our dear patrons.

All our products are meticulously crafted and manufactured, and that personal touch ensures that you never have to worry about the instrumental needs in your work domain.

ALL CATEGORIES

Air quality

Water Quality

Measuring Devices

Hydrology

Meteorology

Waste Water

Oceanography

Rugged Systems

Constructional Tools

Modems/Routers

Laboratory Technology

Personal Tracking

HIGH VALUES

Our Success is not only due to the quality of our work. It's down to attitude, our approach and the way we treat our clients.

👁 Focus

We Have A 100% Commitment To Making All Our Sites The Best They Can Possible Be, No Matter What It Takes To Get There.

♥ Passion

Our Desire To Produce Good Work Runs Deep- That's What Lets Us Handle Every Project With Fresh Energy And Enthusiasm.

⇆ Empathy

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MULTI-PARAMETER PORTABLE METER MULTILINE® MULTI 3630 IDS-3 CHANNELS (PORTS)
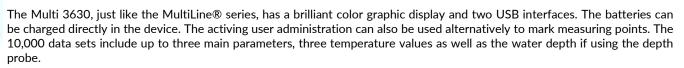
Description

Measure three parameters simultaneously –pH, ORP, dissolved oxygen, conductivity and/or turbidity with the digital pocket meter Multi 3630 IDS.

- Wireless-ready
- Digital sensor detection
- Measure, display and document three parameters plus secondary information

Three galvanically isolated sensor inputs

Triple – 3 channels, 4 parameters: Three measuring channels, freely combinable for same or different parameters: The simultaneous multi-parameter measurement without compromise. Use also the wireless modules together with the nee IDS plug head sensors, be independent from cables and measure conveniently also at hardly accessible locations. Another highlight: This meter allows the operation with the digital multi-parameter probes MPP 910 IDS and MPP 930 IDS.

The Multi 3630, just like the MultiLine® series, has a brilliant color graphic display and two USB interfaces. The batteries can be charged directly in the device. The activing user administration can also be used alternatively to mark measuring points. The 10,000 data sets include up to three main parameters, three temperature values as well as the water depth if using the depth probe.

The scope of delivery includes the MultiLab® Importer to capture data via Excel® as well as the MultiLab® User (user administration).

Professional digital multi meter for portable field measurement, with triple channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Field case set with IDS sensors: digital pH electrode SenTix® 940, digital conductivity cell TetraCon® 925, optical DO probe FDO® 925, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.

Specification	Description
Parameters	pH, mV, D.O. (Saturation, concentration, partial pressure, BOD), Conductivity (spec. resistance, salinity, TDS), Temperature,
Parameters: BOD, Degradation tests	YES
Digital/IDS sensors	YES
Universal measurement channels	3
Memory	Manual: 500 records Automatic: 10,000 records
Data logger	Manual/time controlled
Interface	USB-A, Mini USB-B
Display	Color graphic
Power supply	Power supply with charging function, 4 NiMH re-chargeable batteries (AA type), USB
Protection class	IP 67
Conductivity	10 µS/cm ... 2000 mS/cm ±0.5 % of value
Spec. resistance	0.5 Ohm cm ...100 kOhm cm ±0.5 % of value
Salinity	0.0 ... 70,0 ± 0.5 % of value
TDS	0 ... 1999 mg/l, 0.0 ... 199.9 g/l ±0.5 % of value

Related Divides

Multi-parameter portable meter MultiLine® Multi 3620 IDS- 2 Channels (Ports) photoLab® 7100 VIS - WTW

Multi-parameter portable meter MultiLine® Multi 3620 IDS- 2 Channels (Ports) photoLab® 7100 VIS - WTW

HEATING MANTLE
PCE-HM 1000

Description

Heating Mantle for 1000 ml round-bottom flask / stepless variable (rotary switch) / with 350 watt power / with integrated controller / temperature range 0 ... 450 °C

The heating mantle PCE-HM 1000 is an auxiliary device that is used in laboratories. The heating mantle helps you to heat or temper various samples or chemicals in the laboratory. The device is equipped with a crocheted net inside, in which the heating mantle can be placed in order to heat it up. The round-bottom flask is a typical shape of the glass containers that are placed into the heating mantle.

The round-bottom flask is a 1000 ml tank that holds the corresponding amount of fluid. The temperature range of the heating mantle reaches 0 to 450 °C and that temperature can be set directly on the heating mantle by means of a stepless variable rotary switch. The quick heat-up time helps the user save time. If you are looking for a heating mantle that covers a different capacity or a different temperature range, please look at others in our selection.
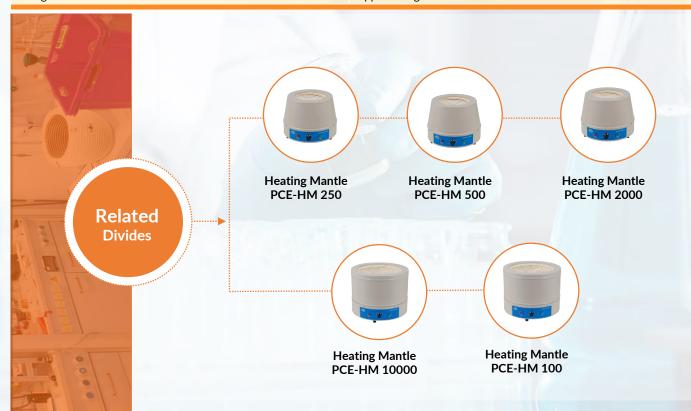
Characteristics

- Power 350 W
- Rotary switch
- Quick Heat-up time
- Integrated controller
- Round-bottom flasks

Specifications	Descriptions
for round-bottom flasks	1000 ml
Maximum operation temperature	0 ... +450 °C
Voltage Supply	230 V
Power	350 W
Operation time	continuous
Dimensions inner	Ø 150 × 90 mm
Dimensions outer	Ø 280 × 220 mm
Weight	approx. 4 kg

Related Divides

Heating Mantle PCE-HM 250

Heating Mantle PCE-HM 500

Heating Mantle PCE-HM 2000

Heating Mantle PCE-HM 10000

Heating Mantle PCE-HM 100

SPECTROPHOTOMETER PHOTOLAB® 7600 UV-VIS - WTW

Description

The spectrophotometer photoLab® 7600 UV-VIS offers the universal use from well-proven routine analysis to spectral analysis with pioneering procedure OptRF for reagent-free measurement of COD, Nitrate and Nitrite. Furthermore, important parameters such as UVT and SAC as well as comprehensive color measurement are supported. Being light-weighted and optionally powered by standard car battery, photoLab® 7600 UV-VIS can be operated On-site easily.

- OptRF for standard parameters COD, NO3, NO2 in the outlet of sewage plants
- Menu-guided operation
- Multi-step AQA
- Application support from chlorophyll to wine
- Comprehensive programming opportunities

For the standard parameters COD, nitrate and nitrite, a spectrum in the UV range is evaluated by means of complex algorithms which are based on reference spectra. The result is put out directly as concentration reading, without the use of reagents. No potassium dichromate, no digestion - for quick testing. The composition of the water (matrix) is important for this value determination, since water is not equal to water.

The future has arrived: Optical reagent-free measurement of COD, nitrate and nitrite (OptRF)

- Check of measurement range
- Faster than the fastest digestion
- No costs, as no reagents or chemicals required
- Environmentally friendly and no health hazards

Specification	Description
Wavelength Range	190 - 1100 nm
Optics	Monochromator with Grating and step motor / reference beam
Lamp	Wolfram-Halogen
Display	Farbdisplay 7" backlit
Bandwidth	4 nm
Measurement	Concentration, Absorbance, % Transmission, Kinetics and Spectra in Abs or %Transmission, Multiwavelengths and multistep readings
Scan speed	700-2000 nm/min, Scans in 1, 2, 5, 10 nm steps of wavelength range
Wavelength accuracy/reproduceability	± 1 nm / < 0,5 nm
Photometric accuracy/reproduceability	- 0,003 E for E < 0,600; 0,5% of values for 0,600 < E < 2,000
Photometric linearity	< 1 % for A ≤ 2.000 in the range 340 ... 900 nm
Straylight	< 0,1 %T at 220 nm with NaI, < 0.05 % transmission at 340 and 408 nm with cut-off filter
Barcode	Automatic method recognition including measurement range for all cuvette
Cuvette	16 mm round, rectangular 10 mm, 20 mm, 50 mm with automatic cell detection for automatic measurement range setting
Data storage	5000 meausrement values, spectra and kinetics approx. 40 MB => 500 spectra (300-900 nm) and 400 kinetics with 150 measurement values,
Methods and Profiles	> 250 pre-programmed methods, 1000 user-defined methods, profiles for kinetics and spectra, comprehensive programming options
Methods and Profiles	> 250 pre-programmed methods, 1000 user-defined methods, profiles for kinetics and spectra, comprehensive programming options
Interface / Update	1 USB-A, 1 USB-B, 1 Ethernet / Update via Internet and USB-Stick
IP Class	IP 30 including drainage in optical compartment
Power Supply	Universal power supply, optional supply via standard adaptor cable for car batteries
Temperature Range	Operation: +10°C bis +35°C, Storage: -25°C bis +65°C
Weight / Dimensions	approx. 4,5 kg / 404 x 197 x 314 (BxHxT)
Accessories	PC software photoLab® Data spectral+photoLab® color, field case, checking tools for AQA

Related Divides

➡ Spectrophotometer photoLab® 7100 VIS - WTW

BIOLOGICAL AEROBIC DEGRADATION WITH OXITOP®-IDS A6 - WTW

Description

OxiTop®-IDS system to determine biological degradability according to OECD/microbiology – lab procedure according to DIN ISO 29 408 / ISO 9408 / OECD 301 F

- Easy handling for secure results
- Flexible use for different volumes and temperatures
- Graphic evaluation on the MultiLine® for process monitoring

Respirometric measuring system for aerobic operation, 6 measuring units, requires Multi 3620 IDS SET WL or Multi 3630 IDS SET WL, please order separately. Universal power supply 100 to 240 VAC, 50/60 Hz. Including 6 sample bottles, PF45/1000 (1000 ml), 6 OxiTop® AD/SK adapters, stirring platform IS 6-Var and accessories. OxiTop®-IDS wireless measuring heads with Bluetooth® LE technology for operation with Multi 3620 IDS or Multi 3630 IDS, memory for 360 measuring points, with backlit graphic LCD and control LED, for routine BOD also operable without IDS multiparameter instrument.

Specification	Description
Model	OxiTop®-IDS resp. OxiTop®-IDS/B
Pressure range (hPa)	OxiTop®-IDS: 500 to 1250 OxiTop®-IDS/B: 500 to 1500
Selectable Measuring Period	0.5 hours to 180 days
Data sets	Up to 360
Interface (via Multi 3620 IDS/3630 IDS)	Bluetooth® LE
Routine BOD without meter	
Selectable sample volume (ml)	22.7 ; 43.5 ; 97.0 ; 164 ; 250 ; 365 ; 432
BOD range	0 to 400000 mg/l
Display	LCD, backlit, menu-controlled
Signal LED	RGB
Battery	1 x Type LS14250 (1/2 AA Lithium)

Related Divides

PRO SERIES BOD PROBE

BOD ANALYST PRO DESKTOP SOFTWARE

PROOBOD OPTICAL BOD PROBE

PORTABLE TURBIDITY METER
TURB® 430 IR - WTW

Description

Turb® 430 IR meet the requirements of nephelometric measurement at 90° stray light for drinking water with highest precision particularly suitable in the range < 1 NTU and is therefore suitable for water analysis,control, such, fuel, cell cultures, food and beverage industries and (health) administration surveillance.

- Higly precise AMCO Clear® Standards
- Stray light behavior according to pharmacopoeia 5.0
- Adjustable calibration intervals and GLP-compliant documentation
- Measuring range comprises 0.02 -1100 NTU/FNU with automatic measuring range switching

The quality assurance of the measured results is supported by calibration interval setting with documentation. This makes Turb® 430 not only a portable meter – also available in a practical field set - but also a precise and reliable benchtop meter for applications of up to 1100 NTU/FNU with optimized data administration!

The measurement and automatic 3-point calibration runs menu-guided. The calibration takes place via an AMCO Clear® standard set (0.02-10-1000 NTU). Up to 1000 data sets including sample ID numbers can be stored and later put out GLP-compliant via the PC software LSdata .

Polymer calibration standards resist against Formazine by significantly higher accuracy and stability without drifting, which increases the measuring accuracy significantly:

- No health hazard
- Easy to dispose of
- N.I.S.T. traceability
- Long-term stable particle distribution and size
- Manufacturing tolerance of only ±1% for highest result accuracy

Specification	Description
Light source	LED
pH measurement	yes
Turbidity measurement	yes
Calibration interval/record	yes
Cal. adjustment for selected programs	no
Special methods with pH and Temp.	yes
User-defined progr. via LSdata Software	100
Data storage	1000
Sets	available
Rechargeable batteries w. universal plug	optional
Cells / Cuvettes: round	16 mm (H:91-104 mm); 28 mm
Ident number	yes
Interface	RS232
PC-Connection	yes
Method-update via Internet	yes
Firmware-update via Internet	yes
LabStation for lab use incl. rechargeable battery + PC Software LSdata	optional
LSdata Stand alone optional	optional
Certificates	CE/ETLus/cETL
Waterproof housing	IP 67
Cells / Cuvettes: round	16 mm (H:91-104 mm); 28 mm
Ident number	yes

MAGNETOMETER PCE-SFS 10

Description

Magnetometer with a measuring range of ±60 kV DC / Battery status display /Simple operation / Earthing cable with alligator clip / Alignment via two lasers /For mobile use / Temperature and humidity measurement of the environment

An electrostatic measurement is particularly important to check whether surfaces, components or the human body are electrostatically charged. If a discharge occurs, electronic components can be damaged. In the worst case, flames can form with flammable gases and liquids. Such electrostatic charges can be found with the magnetometer. The electromagnetic field meter is therefore used for checking in ESD-protected production workshops. The measuring range of the electromagnetic field meter is ±60 kV DC.

Characteristics

- Easy-to-read display
- Measuring range ±60 kV DC
- Temperature and humidity display
- Battery life of a maximum of 20 hours
- Laser for aligning the measuring device
- Acoustic signal when the measured value is exceeded

Specification		Description
Electromagnetic field	Measuring range	±60 kV DC
	Resolution	±20 kV DC: 0.01 kV DC, -60 ... -20 kV DC /, +20 ... +60 kV DC: 0.1 kV DC
	Accuracy	±5 % of measured value
Temperature	Measuring range	-40 ... 123.8 °C / -40 ... 254.8 °F
	Resolution	0.1 °C
	Accuracy	±1.5 °C
	Measuring range	-40 ... 123.8 °C / -40 ... 254.8 °F
Humidity	Measuring range	0 ... 100 % RH
	Resolution	0.1 % RH
	Accuracy	±4.5 % RH
Further specifications	Response time	<100 ms
	Acoustic alarm	when switching on the measuring device, 5 seconds before the automatic shutdown, when the measuring range is exceeded
	Automatic shutdown	after 5 minutes
	Power supply	9 V block battery
	Operating time	>20 hours
	Operating conditions	0 ... 40 °C / 32 ... 104 °F, 0 ... 60% RH, non-condensing
	Dimensions	123 x 70.4 x 21.5 mm / 4.8 x 2.7 x 0.84"
	Weight	147 g / 5.1 oz

Device description

Housing
Status display
Display
On and off switch
HOLD key to freeze the display
ECO key for switching the backlight on and off

Temperature and humidity sensor
Alignment laser
Radiation sensor
Service interface

Nameplate
Battery compartment

MAGNETIC STIRRER PCE-MSR 50

Description

Mini magnetic stirrer to 1000 ml / 88 mm platform / Mains operation /Adjustable stirring speed

The mini magnetic stirrer PCE-MSR 50 is suitable for applications in small laboratories. The mini magnetic stirrer can safely mix stirring quantities of 100 ... 1000 ml. Vessels with a diameter of up to 88 mm can be placed on the stirring surface of the mini magnetic stirrer PCE-MSR 50.

So the magnetic stirrer can be used for all common beakers. The magnetic stirrer is supplied with an external 5 V mains adapter. Due to its small size and weight, the mini magnetic stirrer can also be used in mobile field surveys.

Characteristics

- Mains operation
- Small dimensions
- Stirring surface 88 mm
- Field and laboratory tests
- Adjustable speed to 1600 rpm
- Magnetic stirrer up to 1000 ml

Specification	Description
Drive of stirring points	Motorised
Stirring quantity	100 ... 1000 ml
Adjustable speed	0 ... 1600 U/min
Stirring surface	Ø 88 mm
Material of the platform	plastic
Power supply	Power adapter 5 V / 2 A DC
	90 ... 230 V AC
Weight	ca. 500 g

Related Divides

Magnetic Stirrer PCE-MSR 150

Magnetic Stirrer PCE-MSR 450

Magnetic Stirrer / Hot Plate Stirrer PCE-MSR 350

MAGNETIC STIRRER PCE-MSR 110

Description

The inductive magnetic stirrer PCE-MSR-110, is a flat, space-saving laboratory magnetic stirrer. Due to the induction-based operation, a quiet operation and a flat design of the stirrer are made possible. The agitator is designed in stainless steel and has a working surface of Ø 94 mm / 3.7". With this laboratory magnetic stirrer, liquid media up to 800 ml / 0.21 gallon volume can be mixed easily, quickly and safely.

The stirring speed of the magnetic stirrer PCE-MSR 110 can be adjusted between 15 and 1,500 rpm. The magnetic stirrer PCE-MSR 110 slowly moves up to the set stirring speed by a softstart, in order to avoid spatter. The inductive agitator is wear-resistant and maintenance-free. An integrated timer allows stirring between 1 and 99 minutes. The reverse stirring function allows a change of direction of the revolution at an interval of 30 seconds.

Specification	Description
Agitator drive	inductive
Max. speed	1500 rpm
Adjustable timer	1 min. to 99 min
Adjustable speed	15 - 1500 rpm
Speed accuracy	+/- 50 rpm
Maximum stirring volume	800 ml / 0.21 gallon based on water
Environmental conditions / protection class	5 – 40 °C / IP 65
Dimensions of agitator (diameter)	94 mm / 3.7"
Dimensions, weight	120 x 164 x 12 mm / 4.7 x 6.4 x 0.4", 0.4 kg / 14 oz
Current consumption	100-230 VAC, 50-60 Hz
Input	5 W

Related Divides

Magnetic Stirrer PCE-MSR 400

TURBIDITY METER
PCE-TUM 20

Description

PCE-TUM 20 is a portable handheld turbidity meter or turbidimeter for water quality analysis. This turbidity measuring device is equipped with a large LCD screen and a user-friendly keyboard. The turbidity meter features two automatically switching measuring ranges between 0 ... 50 NTU and 50 ... 1000 NTU for increased accuracy. Using the included calibration references of 0 NTU and 100 NTU, the meter can be adjusted at any time. (Note: NTU stands for Nephelometric Turbidity Unit.)

Inside the meter, there is an infrared LED light source with a wavelength of 850 nm. A photodiode positioned in a 90° angle to the measuring ray absorbs the light reflected by the particles in the dissolution. Diffused light or Nephelometric measuring methods are used for the lower measuring range. For the higher measuring range, an additional photodiode is positioned at the opposite side; therefore, measurement is performed via the transmitted light method.

Characteristics

- Portable
- High accuracy
- Large LCD screen
- User-friendly keyboard
- Displays turbidity measurements in NTU

Specification	Description
Measuring range	0.00 to 50.0 NTU and 50 to 1000 NTU
Resolution	0.01 and 1 NTU
Accuracy	± 5 % of measured value or ± 0.5 NTU
Light source	LED, infrared at 850 nm
Lifetime	Almost unlimited
Light detector	Photodiode
Measurement time	< 10 sec.
Power supply	6 x 1.5 V AAA batteries
Operating conditions	< 50 °C / 122 °F, < 85 % RH
Dimensions	Approx. 155 x 76 x 62 mm / 6.1 x 3.0 x 2.4" (H x W x D)
Weight	Approx. 320 g / 0.71 lb

LAB PH METER INOLAB®
PH 7110

Description

Simple, easy-to-use lab pH meter for the routine measurement with reproducable measuring results and increased measuring accuracy

- Repeatable measuring results by automatic recognition of stable values
- Secure operation: Automated functions reduce the number of keys
- Increased measuring accuracy by calibration timer with periodic reminders for calibration
- The inoLab® pH 7110 is highly suitable for routine measurements in the lab, where automatic documentation is not a priority. Less keys make operation simple and safe. With smooth, easy to clean surface.

Specification	Description
Parameter	pH/mV/Temp
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	-5.0 ... 105.0 oC
Measuring range mV	-1200.0 ...+1200 / -2000...+2000mV
Accuracy pH	+/- 0.005/ +/-0.01/0.1
Accuracy mV	+/- 0.3 mV/ +/- 1 mV
Accuracy Temperature	+/-0.1 K

Related Divides

pH 7310 Benchtop Meter

pH/Cond 3320 Multi-Parameter Portable Meter

Cond 3310 Portable Conductivity Meter

Cond 7310 Conductivity Benchtop Meter

MULTI 9310 IDS MULTIPARAMETER BENCHTOP METE

Description

pH, ISE, Conductivity, and Dissolved Oxygen Measurement - Accurate, Compliant, and Secure

WTW inoLab® Multi 9310 IDS Multiparameter Benchtop Meter offers the correct solution for pH, ORP, dissolved oxygen and conductivity measurements in the lab.

Characteristics

- Wireless ready
- Smart sensor evaluation
- Digital sensor recognition
- Uncompromised measuring accuracy

The new WTW inoLab® Multi 9310 IDS Multiparameter Benchtop Meter is highly suitable for digital measurements of pH, ORP, dissolved oxygen (optical), BOD, conductivity and turbidity in the lab..

Use the new wireless modules together with the new IDS plug head sensors to be independent from cables and measure i.e. conveniently under laboratory hoods or laminar flow benches.

The IDS technology allows optimized measurements and efficient documentation in the simplest manner. A USB interface or an optionally installed printer allow the documentation via the computer or directly on the meter.

- The digital signal transfer eliminates interference, securely assigns calibration data, simply transfers sensor data.
- The CMC function visualizes the optimized measuring range and support correct measurements.
- The smart sensor evaluation (QSC) informs about the actual status of the electrode and thus increases the operational safety.

Specification	Description	Specification	Description
Parameters4	pH, mV, saturation, concentration, partial pressure, conductivity, specific resistance, salinity, TDS, temperature	Calibration memory	max. 10
		Memory	manual: 500 data sets
		Logger	●
Digital/IDS sensor	●	Interface	Mini USB-B
Sensor channels	1 universal channel	GLP/AQS support	●
Analog pH/Redox sensors	ADA S7/IDS (optional)	Display	black and white graphic display
Temp. compensation	all except ORP	Optional printer	yes
Calibration points		Others	CMC, QSC
pH	1–5	Power supply	universal power supply, batteries (4 x 1.5 V AA type)
ISE	–		
D.O.	1	Logger	●
Conductivity	1	Interface	Mini USB-B
Calibration memory	max. 10	GLP/AQS support	●
Calibration timer	1 – 999 days	Display	black and white graphic display

Related Divides

Multi 9630 IDS Multiparameter Benchtop Meter

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