



# inoLab® Multi IDS

pH, ISE, CONDUCTIVITY AND DISSOLVED OXYGEN MEASUREMENT –  
ACCURATE, COMPLIANT, SECURE

شرکت ابزار طب  
وارد کننده تجهیزات  
آزمایشگاهی - تحقیقاتی - علمی  
تاسیس ۱۳۶۳



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# Re-defined

## IDS

The IDS concept from WTW. Intelligent, digital sensors for standard parameters pH, conductivity, and dissolved oxygen.

The IDS system is based on two components: digital sensors and corresponding field and benchtop meters. The outstanding innovation: The measurements are processed in the sensor, not in the meter.

## The advantage of IDS

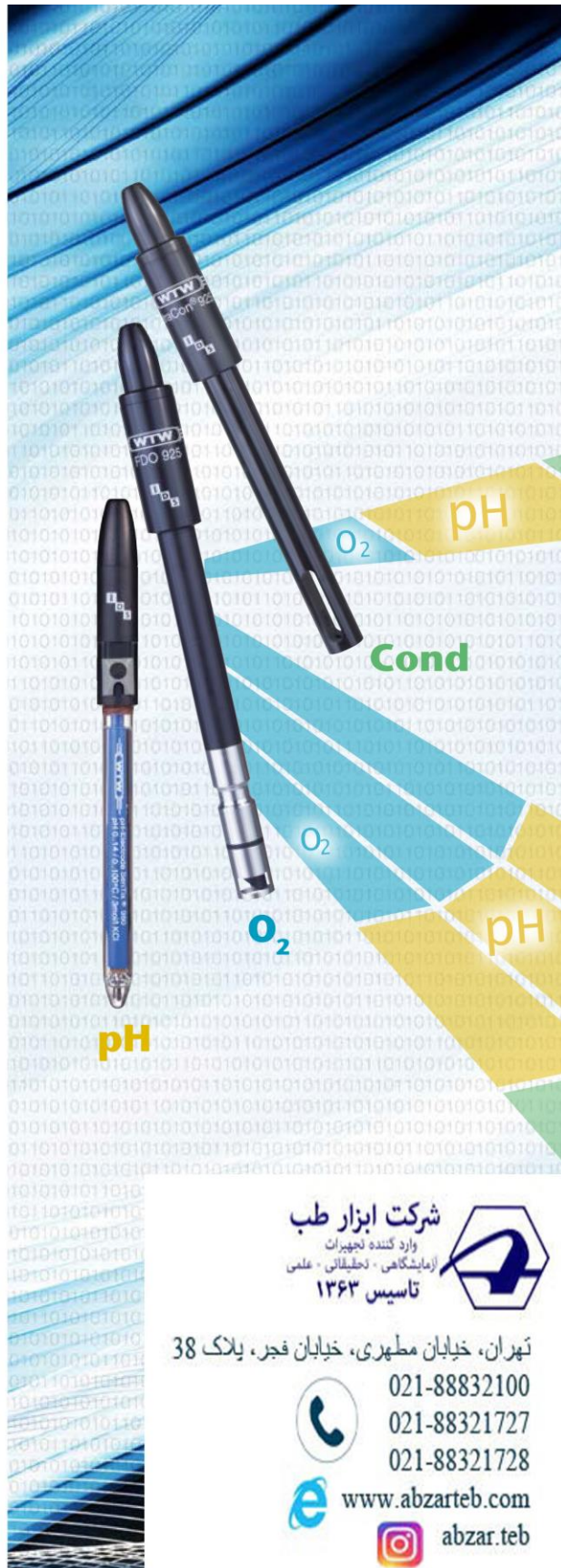
- Processing of sensitive signals into fail safe digital data
- Calibration records are stored in the sensor - independently from any meter
- Sensors provide important data for documentation

## Proven sensor technology

IDS Sensors are based on proven and continuously enhanced WTW sensors.



For more detailed information please order free of charge our catalog **"Lab and Field Instrumentation"** or visit our web site : [www.wtw.de/en/ids](http://www.wtw.de/en/ids)  
(For convenience use our QR code).



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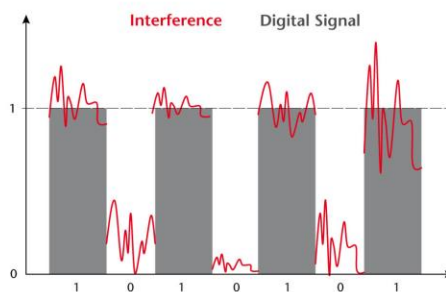


## I intelligent

IDS sensors are smart. They log on automatically, transfer description, serial number, calibration record and calibration history as well as their complete parameters.

## D digital

IDS sensors process the sensitive signals into digital signals and transfer them fail-safe and error-free to the meter.



## S sensors

IDS Sensors are based on proven and continuously enhanced WTW sensors. They cover almost any application in pH, conductivity and D.O. measurement.

# Securely traceable ...

... with the inoLab® Multi 9430 and 9420 IDS.

The inoLab® Multi 9430 IDS and inoLab® Multi 9420 IDS are high performance digital 3 or 2 channel benchtop meters. They allow the simultaneous measurement and documentation of up to two or three user-defined parameters.



For more detailed information please visit our web site :  
[www.wtw.de/en/inolab-ids](http://www.wtw.de/en/inolab-ids)



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## inoLab® Multi 9430 IDS

- Three universal measurement channels
- Digital sensor recognition
- Anti-bacterial keypad



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## inoLab® Multi 9420 IDS

- Two universal measurement channels
- Digital sensor recognition
- Anti-bacterial keypad



## Flexible and high performance

- Measures pH, ORP, ISE, D.O. and conductivity
- User-defined combinations of equal or different parameters
- Color graphic display with CMC, QSC and channel indicator
- Optional adapter solution for conventional pH electrodes
- Memory for 10,000 records

## Secure Measurement

- Digital signal transfer eliminates electromagnetic interferences, allocates correct calibration data and provides sensor data
- The intelligent sensor rating QSC shows visually the actual condition of a pH electrode and increases operational reliability

## Documentation

- Automatic digital recording of all sensor data for unique traceability of all values
- Optional user administration for access control and documentation
- Data output on PC, USB memory stick or selected printers



## Digital Sensor Recognition



# Securely traceable ...

... with the innovative inoLab® Multi 9310 IDS.

The inoLab® Multi 9310 IDS with its single digital input is an outstanding introduction to digital multi-parameter measurement with digital IDS electrodes. The IDS technology provides the easiest way to perfect measurements and efficient documentation.



For more detailed information please visit our web site : [www.wtw.de/en/inolab-ids](http://www.wtw.de/en/inolab-ids)



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inoLab® Multi 9310 IDS 

- Single channel multi-parameter for IDS sensors
- Digital sensor recognition
- Optional built-in printer



## Documentation according to GLP/AQA

- Automatic digital recording of sensor data for definite traceability of all values
- Optional user administration for access control and documentation
- Transfer of all data as .csv format via USB interface to a PC, Excel add-in for formatted input into spread sheet (Included in delivery or as download)
- Output via optional built-in printer

# IDS sensors

## Distinctively unique

The IDS sensors - intelligent, digital sensors - combine proven measurement technique with additional advantages. Based on proven electrochemical WTW sensors but equipped with advanced measurement electronics the IDS sensors distinctively store their serial number and calibration records for immediate operation. IDS sensors not only store their data but also process the measurement signal and thus enhance the quality of measured data. This allows the actual rating of electrode quality by the QSC (Quality Sensor Control) function.



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## The IDS sensors combine proven technology with new advantages

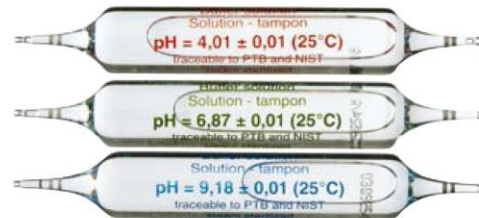
- Premium, enhanced sensor technology combined with most advanced measurement electronics
- IDS sensors store serial numbers and calibration history - ready for immediate operation
- Current rating of sensor quality with IDS pH electrodes by QSC (Quality Sensor Control)
- IDS conductivity measurement: Two sensors for covering almost all applications



For more detailed information please visit our web site : [www.wtw.de/en/ids-sensors](http://www.wtw.de/en/ids-sensors)

## Accessory for IDS pH electrodes

Precision buffers allow a clear evaluation of electrode quality during their life time.



| IDS sensor                  | conventional sensor | cable length |
|-----------------------------|---------------------|--------------|
| <b>pH electrodes</b>        |                     |              |
| SenTix® 940                 | SenTix® 41/42       | 1.5 m        |
| SenTix® 950                 | SenTix® 51/52       | 1.5 m        |
| SenTix® 980                 | SenTix® 81/82       | 1.5 m        |
| SenTix® ORP 900             | SenTix® ORP         | 1.5 m        |
| <b>Conductivity cells</b>   |                     |              |
| TetraCon® 925               | TetraCon® 325       | 1.5 m        |
| LR 925/01                   | LR 325/01           | 1.5 m        |
| <b>Optical D.O. sensors</b> |                     |              |
| FDO 925                     | -                   | 1.5 m        |

## Technical data

|                         | inoLab® Multi 9310 IDS $\mu\text{S}$   | inoLab® Multi 9420 IDS $\mu\text{S}$                     | inoLab® Multi 9430 IDS $\mu\text{S}$ |
|-------------------------|--|--|--------------------------------------|
| Parameters              | pH, mV, saturation, concentration, partial pressure, conductivity, specific resistance, salinity, TDS, temperature |  |                                      |
| Digital/IDS sensor      | ●  |  |                                      |
| Sensor channels         | 1 universal channel  | 2 universal channels                                     | 3 universal channels                 |
| Analog pH/Redox sensors | ADA S7/IDS (optional)  | ADA 94 pH/IDS (optional)                                 |                                      |
| Temp. compensation      | all except ORP   |  |                                      |
| Calibration points      | 1-5  | 1-5  |                                      |
| pH                      | -  | 2-7, adapter required                                    |                                      |
| ISE                     | 1  | 1  |                                      |
| D.O.                    | 1  | 1  |                                      |
| Conductivity            | 1  | 1  |                                      |
| Calibration memory      | max. 10  |  |                                      |
| Calibration timer       | 1 - 999 days   |  |                                      |
| Memory                  | manual: 500 data sets<br>automatic: 5,000 data sets  | manual: 500 data sets<br>automatic: 10,000 data sets     |                                      |
| Logger                  | ●  |  |                                      |
| Interface               | Mini USB-B   | USB-A, Mini USB-B  |                                      |
| GLP/AQS support         | ●  |  |                                      |
| Display                 | black and white graphic display  | color graphic display                                    |                                      |
| Optional printer        | yes  | external   |                                      |
| Others                  | CMC, QSC   | anti-bacterial keyboard, QSC, CMC, exchangeable firmware |                                      |
| Power supply            | universal power supply,<br>batteries (4 x 1.5 V AA type)   | universal power supply                                   |                                      |



## Ordering Information

| Model                    | Description  | Order No. |
|--------------------------|--|-----------|
| inoLab® Multi 9310       | Digital multiparameter benchtop meter for IDS sensors, for measurements/documentation according GLP/AQA. With single channel input for pH/mV, dissolved oxygen and conductivity. Single instrument with universal power supply, stand and operation manual, software and USB cable.              | 1FD350    |
| inoLab® Multi 9310P      | Same as 1FD350, but with integrated thermal printer.   | 1FD350P   |
| inoLab® Multi 9310 SET K | Same as 1FD350, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, optical IDS D.O. sensor FDO 925, digital IDS cond cell TetraCon® 925, 0.01 mol/l KCl, cond standard.  | 1FD35K    |
| inoLab® Multi 9420       | Professional digital multiparameter benchtop meter for IDS sensors, for measurements/documentation according GLP/AQA. With dual channel input for pH/mV, dissolved oxygen and conductivity. Single instrument with universal power supply, stand and operation manual, software and USB cable.   | 1FD460    |
| inoLab® Multi 9420 SET B | Same as 1FD460, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, optical IDS DO sensor FDO 925.  | 1FD46B    |
| inoLab® Multi 9420 SET C | Same as 1FD460, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard.   | 1FD46C    |
| inoLab® Multi 9420 SET E | Same as 1FD460, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity cell LR 925/01.  | 1FD46E    |
| inoLab® Multi 9420 SET K | Same as 1FD460, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, optical IDS DO sensor FDO 925, digital IDS cond cell TetraCon® 925, 0.01 mol/l KCl, cond standard.  | 1FD46K    |
| inoLab® Multi 9430       | Professional digital multiparameter benchtop meter for IDS sensors, for measurements/documentation according GLP/AQA. With triple channel input for pH/mV, dissolved oxygen and conductivity. Single instrument with universal power supply, stand and operation manual, software and USB cable. | 1FD470    |
| inoLab® Multi 9430 SET B | Same as 1FD470, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, optical IDS D.O. sensor FDO 925.  | 1FD47B    |
| inoLab® Multi 9430 SET C | Same as 1FD470, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard.   | 1FD47C    |
| inoLab® Multi 9430 SET E | Same as 1FD470, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity cell LR 925/01.  | 1FD47E    |
| inoLab® Multi 9430 SET K | Same as 1FD470, in set with IDS sensors: digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, optical IDS DO sensor FDO 925, digital IDS cond cell TetraCon® 925, 0.01 mol/l KCl, cond standard.  | 1FD47K    |
| ADA 94pH/IDS DIN         | pH/mV module for inoLab® Multi 9420/9430 IDS for pH/ORP/ISE electrodes with DIN- and 4 mm banana plug. Including mounting accessories.   | 108 131   |
| ADA 94pH/IDS BNC         | pH/mV module for inoLab® Multi 9420/9430 IDS for pH/ORP/ISE electrodes with BNC- and 4 mm banana plug. Including mounting accessories.   | 108 132   |
| QSC-Kit                  | Set for initial pH calibration.  | 109 830   |