Data Management
in the Lab of the Future

BE MORE EFFICIENT IN THE SMART LAB OF THE FUTURE

a **xylem** brand

Data in the Lab of the Future

- Secure, automatic data logging

- Tamper-proof, GLP compliant supplementary data (metadata)

- Future proof data format (JSON)

How can I ...

... replace
the lab book?

Lab Manager

... achieve
GLP compliance?

Quality Manager

INTELLIGENT
DIGITAL
SENSORS

IDS

Learn more about our IDS Gate.

Identify **EMPLOYEE**

Identify **SENSOR**

MEASURED Data

TIME of Measurement

Identify **SAMPLE**

0:01 / 4:14

 /wtwde

... manage
data security?

IT Specialist

GLP compliant measuring and monitoring

The Good Laboratory Practice (GLP) is a quality assurance system. It deals with the organisational process and framework under which safety tests are planned, implemented and monitored. Moreover, GLP deals with the recording, storage and reporting of the test results.

INTELLIGENT
DIGITAL
SENSORS
I D S

The IDS wireless sensors must be calibrated with any IDS bench or portable meter for storing the calibration data in the sensor head.

WHO MEASURES

LABORATORY TECHNICIAN

The exact identification of the person taking the measurement is of prime importance. The transfer of this data to the IDS Gate using a wireless barcode reader makes this an easy and secure process.

WITH WHAT SENSOR

MEASURING SENSOR

In order to work according to GLP, it is best to record and transmit the serial number and calibration information of the sensor alongside the measurement data. In so doing, all data is combined in one transmission.

WHAT IS MEASURED

SAMPLE

The sample under test also requires a clear assignment to the measured value, typically using a batch code. This again is done via barcode and wireless transmission to the IDS Gate.

WHEN MEASURED

TIME OF MEASUREMENT

The IDS Gate assigns the metadata to each measured value and provides it with a time stamp.

WHAT VALUE

MEASURED VALUE

The IDS Gate processes the measurement parameters pH, ORP, conductivity and dissolved oxygen. All measured values are then displayed and transmitted in one data string together with the GLP metadata collected or assigned during the experiment.

GLP compliant recording and archiving

The IDS Gate communicates the measurement and metadata in the open REST API protocol.
The authentication and subsequent archiving of the complete data record is managed by the LIMS.

Connections

The data transmission is wireless via the barcode reader or the IDS wireless sensors*.

This data is recorded by the IDS Gate and transmitted via the API interface. The LIMS can retrieve this data.

* Find your suitable IDS plug head sensor at our
   website www.WTW.com

LIMS

Data management via the IDS Gate provides a flexible and user friendly recording of the measurement data, including all metadata relevant to the measurements within the framework of GLP and company's own requirements.
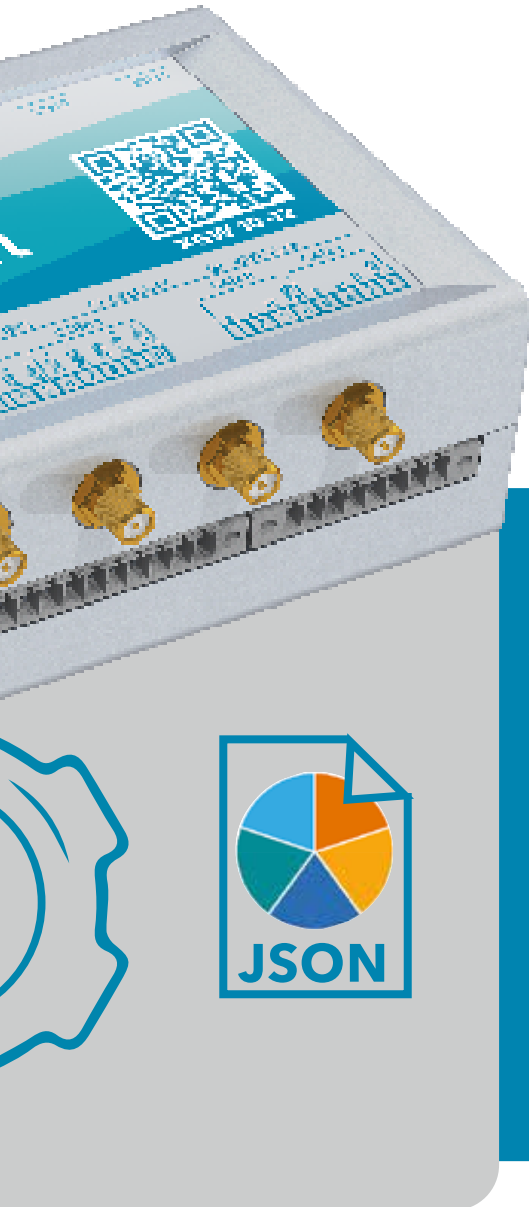
Data security

The IDS Gate provides data in JSON format. JSON ensures that the data from both automatic evaluation systems like LIMS or Excel, as well as by people, are easy to read.

Data transfer is encrypted via HTTPS. In addition to JSON, a secure PDF-A can also be provided for digital long-term archiving.

Visualisation

Browser-based visualisation means that data can be displayed in real-time and independently of the operating system used on network-enabled devices such as smartphones, tablet or monitor.

Technical Data

Interfaces	Ethernet	2x 10/100Mbps - RJ45
	USB	3x Host 2.0 (noise and surge protected) - Type A
Radio transmission	Wi-Fi	WI-FI a/b/g/n,
	Bluetooth	BLE 4.2
	Antenna (external)	2x RP-SMA Wi-Fi/BT
Clock	Real-time clock	Yes (user settable)
Power supply	Input	6-36VDC, transient protected
	Consumption	2 W typical (15 W Max.)
Environmental conditions	Operation temperature	- 40 to +70 °C
	Storage temperature	- 40 to +85 °C
	Relative humidity	5 to 95 % (non-condensing) at 40 °C
Certificates	Compliance	CE
	Safety	EN 62368-1: 2014 + A11: 2017
	Environment	RoHS3
	Protection class	IP30
Mechanical Design	Housing	Material: ABS
	Dimensions	ca. 139 x 90 x 45 mm (W x D x H) ca. 139 x 100 x 45 mm (W x D x H) (including antenna connectors)
Weight	210 g (without DIN rail mounting clip / holder)	
Battery Type	BR1225 Lithium button cell	

Ordering Information

Model	Beschreibung	Order no.
IDS Gate	Gateway with REST API interface for precision data sets. Suitable for pH, ORP, conductivity and dissolved oxygen from IDS wireless sensors. For calibration of sensors, an IDS portable or benchtop meter is required.	1FD680
IDS WLM Kit	Kit for wireless measurement consisting of meter module IDS WLM-M, sensor module IDS WLM-S, and WLM Charger including USB power supply	108144
inoLab® Multi 9310 IDS	Digital multi-parameter benchtop meter for IDS sensors facilitating measurements with documentation according GLP/AQA as well as universal inputs for pH/mV, D.O. and conductivity. The delivery contains meter, universal power supply, stand, instruction manual, CD-ROM with software and USB cable.	1FD350
Multi 3510 IDS	Professional multi-parameter handheld for portable use of IDS sensors. It has an built-in data logger and memory. The meter delivery contains a case buffer 4 and 7, 0.01 mol/l KCl conductivity standard, short instruction manual, CD-ROM with software and USB cable.	2FD350