ivtracer

monitoring **critical environmental parameters**

iv tracer

a complete environment monitoring solution

Today, monitoring critical environmental parameters is one of the key aspects in pharmaceutical, cosmetics and chemicals industries. Similar requirements are also to be found in other industries where constraints exist on the environmental conditions required for production, storage or distribution.

Manufacturers whose activities are subject to regulatory requirements have a wide range of needs:

- being able to comply with GMP and GLP standards and other regulations to which they are subject, such as 21CFR part 11 for the pharmaceutical industry or the ISO 22716 standard in cosmetics,
- Protecting their most valuable commodities,
- Guaranteeing real-time non-contamination of manufacturing batches,
- Providing evidence of compliance with regulations for audits or disputes.

Particle counts, quality of air or water, temperature pressure or hygrometry, etc. **IVTracer is the perfect solution for monitoring and tracking every critical parameter in a wide range of extreme environments:**

- Clean rooms
- Cold rooms
- Climatic chambers
- Production lines
- Warehouses

Secure, robust architecture

With secure, controlled access from any web browser (connected to an internal network or the Cloud), **IVTracer ergonomics have been studied to respond simply and intuitively to monitoring requirements in industrial environments.** This complete easy-to-use solution is designed to be **taken in hand both rapidly and efficiently**.

Designed and developed by NetCeler's engineering team, software architecture provides functions for:

- **guaranteeing the traceability chain** from sensors through to databases,
- **optimizing production environment control** by means of regular automatic measurement,
- **tracking data in real time,**
- **providing accurate management of alarm triggers** (alarms, pre-alarms, appearance and disappearance times, hysteresis, high and low thresholds, etc).

Particularly suitable for regulatory constraints, the solution meets the "critical parameter traceability" requirements needed for validating audits conducted by the National Agency for Medicines (NAM) or the Food and Drugs Administration (FDA).

Audit trail

Consultation of historical curves

Interactive geographical viewing

IntraVision

Field bus

virtual machine

web interface

PLC

digital sensors

particle counts

Controlled measurement

- Information collected in the field
- Integrity of archived data controlled daily

Controlled systems

- Secured data transmission
- Redundant servers
- PLC capable of operating independently for several days

User interaction

- Alarms for any anomaly
- Production environment monitoring
- Real-time data viewing
- Consultation of historical information: Reports, curves, etc.
- Compliance validation: audit trail, CFR21 part 11

Support throughout all the different project stages

Because every project is unique, solutions are tailor-made to meet industrialists' individual requirements.

Besides customized development to meet specific requirements, **NetCeler also offers engineering, installation, qualification and maintenance services.**

Assistance services include project commissioning, optimizing system use, and permanently updating the system for maximum service life.

technical datasheet

Ease of deployment

- Easy configuration using an Excel type spreadsheet
- Distribution of the configuration to the NetCeler FlyServers
- Programs automatically downloaded into PLC
- Integrated service: Qualification engineering, tools and methods
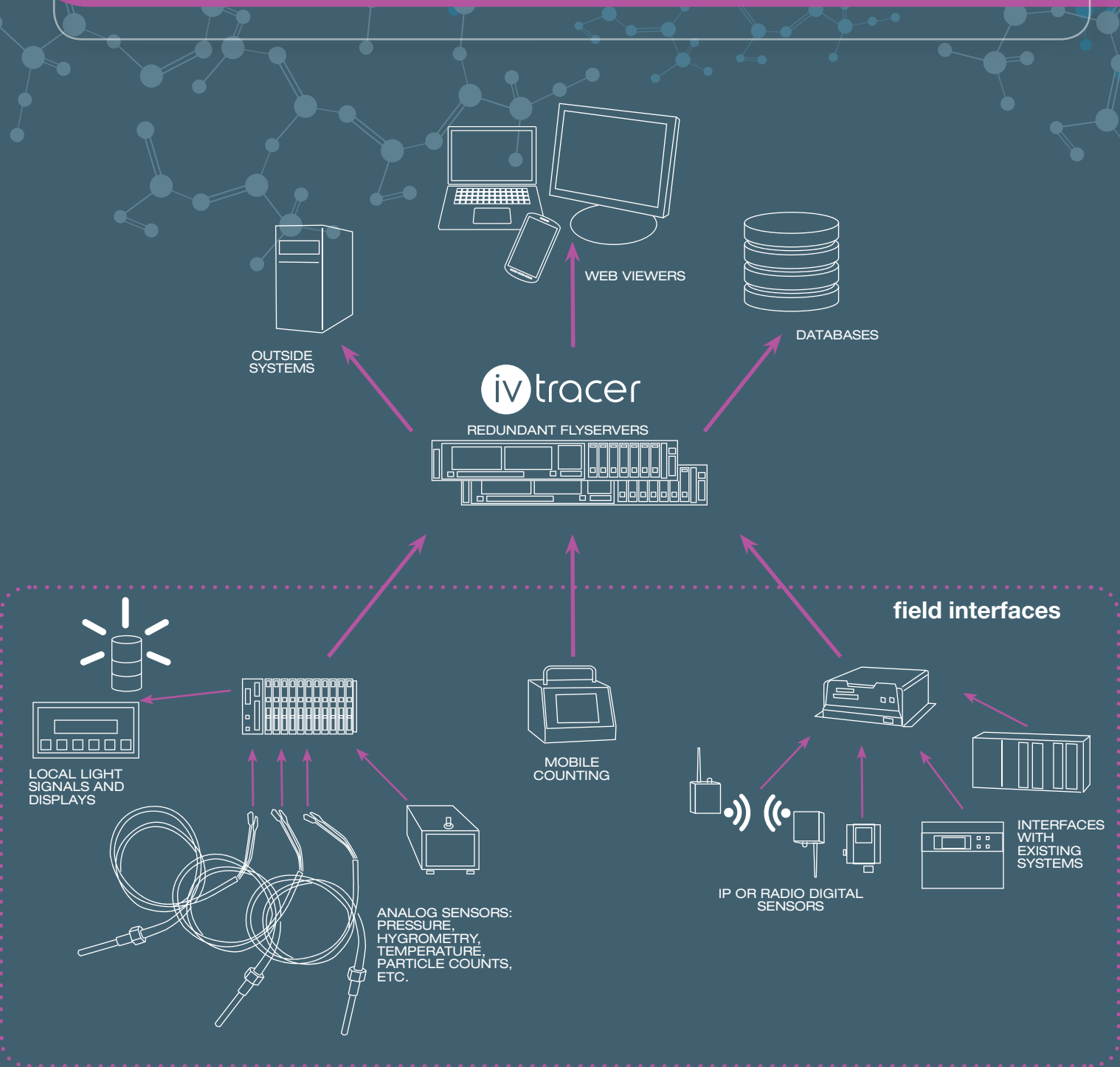
Compatible equipment

- 4-20 mA sensors
- 0-10V sensors
- I/O inputs
- Particle counters (fixed and mobile)
- Ethernet or radio communicating sensors
- Modbus digital sensors
- All types of sensor on request

Security and reliability

- Redundant data flow
- Data backup for PLC and NetCeler FlyServers
- Data integrity guarantee
- Access rights policy
- Maintenance contracts
- Identification via the corporate directory (Active Directory)

IT system integration

- Web and office Interface
- Network integration (VLAN, WAN)
- Link to the company's directory (Active Directory)
- Real server, VMWare or Cloud
- Notifications: phone, SMS and e-mail

21CFR part 11 compliance

- Electronic signature
- User action audit trail
- Configuration audit trail

WEB VIEWERS

OUTSIDE SYSTEMS

DATABASES

iv tracer

REDUNDANT FLYSERVERS

field interfaces

LOCAL LIGHT SIGNALS AND DISPLAYS

MOBILE COUNTING

ANALOG SENSORS: PRESSURE, HYGROMETRY, TEMPERATURE, PARTICLE COUNTS, ETC.

IP OR RADIO DIGITAL SENSORS

INTERFACES WITH EXISTING SYSTEMS

netceler

The specialist in innovative monitoring

The pharmaceutical industry, electricity transport and distribution networks, research laboratories: NetCeler has been designing innovative monitoring solutions for critical environments since 1997.

The company combines proven solutions and acknowledged professional expertise for designing solutions to meet its customers' requirements: **real-time measurement viewing, data tracking and archiving, system monitoring, process analysis and optimization, etc.** These solutions include all necessary **support services** nécessaires, as well as any special development work that may be required.

NetCeler's success is based on:

- **In-depth experience** in measuring and information systems and software development,
- **Know-how** in research, engineering, deployment and maintenance for monitoring systems
- **Expertise in all activities** related to energy, electrical engineering and industrial qualification systems

Its knowhow

The company stands out for its ability **to integrate technological and business values into original solutions.** . Its services are enhanced by the **strong links that exists between the designer and the end-user,** its long-term customer support and a **corporate culture dedicated to collective performance and the quality of human relations.**

A team of 35 real enthusiasts, mostly engineers, creates and deploys innovative monitoring solutions designed and built on the basis of **five key products:**

ivtracer
for monitoring critical environmental parameters in pharmaceutical and associated industries

ivpower
for monitoring the quality of electricity and analyzing faults in lectricity transport and distribution networks

ivenergy
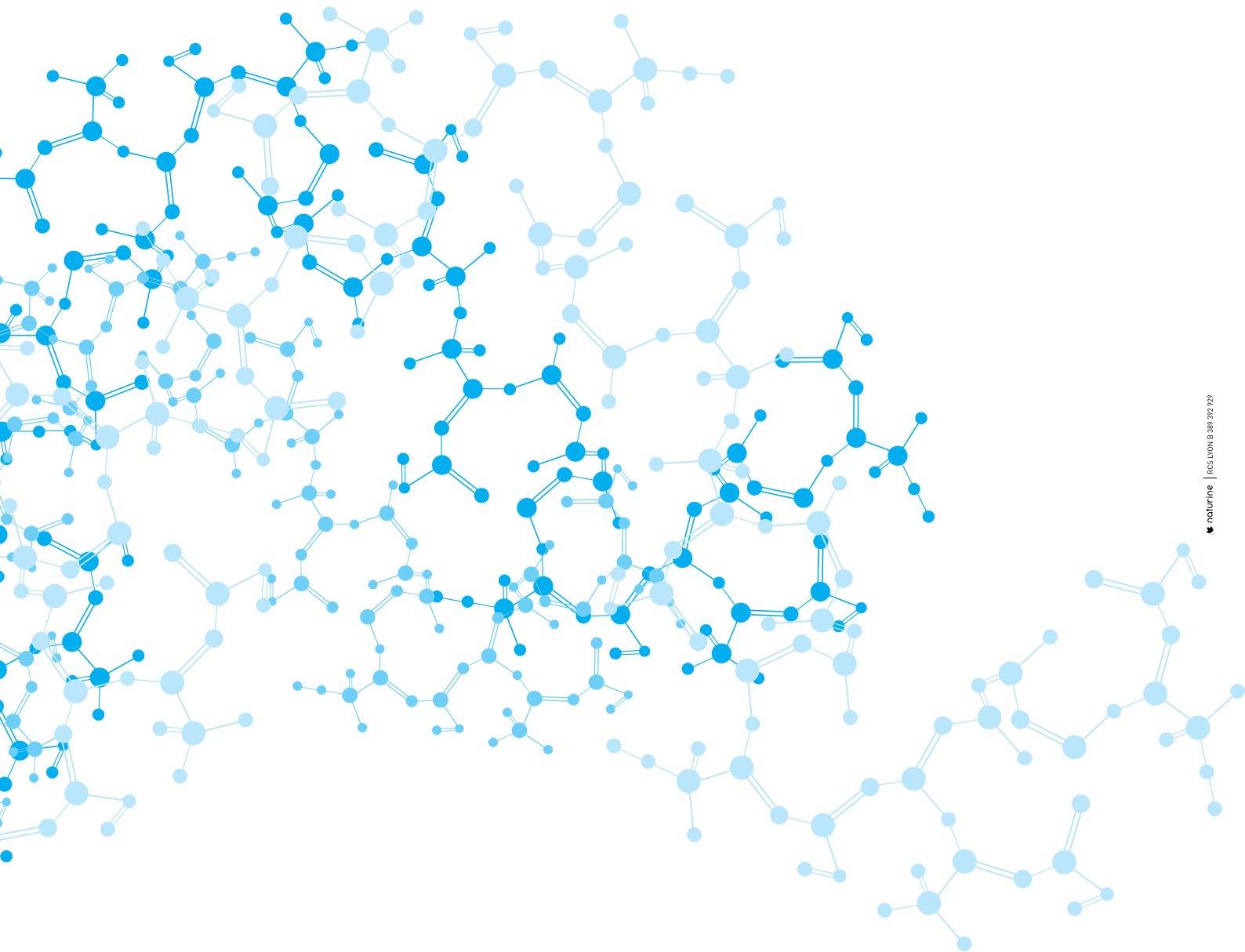for monitoring energy performance in service and industrial buildings

ivpark
for monitoring critical alarms and remote operation systems in car-parks

ivsystem
generic, performing and flexible monitoring

netceler

innovative monitoring solutions