Eurotherm
by Watlow

Planning a Pharmaceutical Facility EMS Project?

Build Environmental Monitoring Right from the Start

Environmental Monitoring is more than environmental data

Environmental Monitoring plays a critical role in pharmaceutical manufacturing, helping to protect product quality, support regulatory compliance and maintain inspection-ready records throughout the lifecycle of your facility. By combining standardized architectures with project-specific customization, DES helps reduce engineering, validation and commissioning effort while providing a scalable platform for future expansion.

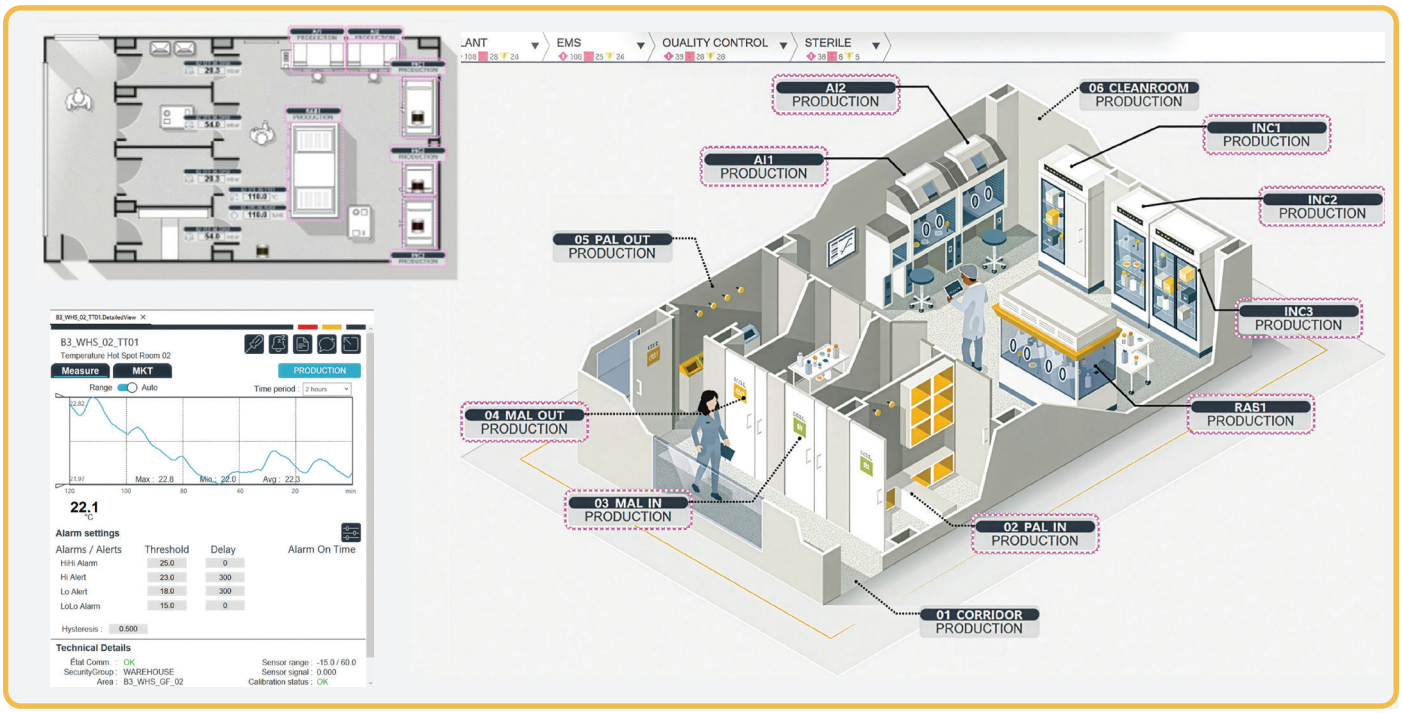
Connecting GMP Requirements with Proven Digital Solutions

Our Digital Engineered Solution (DES) approach starts with regulatory requirements and critical GMP parameters, then applies proven architectures and validation practices to deliver a compliant Environmental Monitoring System.

Designed for Regulated Pharmaceutical Manufacturing

- **Independent EMS Architecture**
  Separate validated monitoring from building control
- **Inspection-Ready Records**
  Electronic records, standard reports, audit trail and electronic signatures
- **Scalable Architecture**
  for GMP facilities with support for integration to third-party systems, including Particle Monitoring Systems (PMS).
- **Data Integrity**
  Supports FDA 21 CFR Part 11, EU GMP Annex 11 and ALCOA++
- **Validation Support**
  ISPE GAMP®- based engineering. Standard documentation to simplify validation and lifecycle management
- **Operational Performance**
  High-accuracy monitoring and robust alarm management

EMS Sterile Laboratory



Proven Digital Engineered Solution

- Proven EMS architecture
- 80% pre-engineered, 20% tailored to your facility
- Standardized validation documentation
- Lifecycle support

Designed for Pharmaceutical Applications

Production Areas
- Cleanrooms
- Sterile Production
- Filling Suites
- Aseptic Processing

Process Equipment
- CIP/SIP
- Bioreactors
- Fermenters
- Autoclaves

Critical Infrastructure
- HVAC
- WFI/PW
- Clean Steam
- Critical Utilities

Storage & Laboratories
- Warehouses
- QC Laboratories
- Stability Chambers
- Cold Rooms

Specialists in Pharmaceutical Environmental Monitoring

For more than 50 years, Eurotherm has helped pharmaceutical and biotechnology manufacturers design compliant process control, environmental monitoring and data management systems for regulated GMP facilities. Today, as part of Watlow, we combine Life Sciences expertise with advanced thermal, automation and digital technologies to support projects from concept through lifecycle operation.

Planning a New GMP Project?

Talk to our Life Sciences specialists before your EMS architecture is specified.

- Greenfield Facilities
- Facility Expansions
- Sterile Manufacturing
- GMP Warehouses & Laboratories

Find out more about our life sciences solutions

eurotherm.com/life-sciences

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