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Product Data Sheet

WTXP

watttrixServer* Performance

Scaled solution to administrate large heating systems and empower digital solutions

watttrix

Hardware Parameters

Mechanical and Electrical Specifications	
Power Supply	24 V DC
Max. power consumption	144 W
Dimensions	180 x 70 x 123 mm (7.09” x 2.76” x 4.84”)
Mounting type	Bookmount, via adapter plate
Terminal blocks grid dimension for supply plug	3.81 mm
Weight	Appr. 2.0 kg (4.41 lbs)
Ambient temperatures	0 °C to +60 °C (32 °F to 140 °F) standard
Relative humidity	93 % RH at 40 °C, non-condensing
Ethernet	1x 2.5 Gb LAN and 1x Gb LAN
Memory/Storage	8 GB DDR4, 512 GByte
CPU	i7-1185G7E 4x 1.8 GHz
Certifications	CE, UL 61010, CB, FCC

PLC-controlled functions

- Control heater
- Get heater status
- Load temperature profiles
- Store process data in PLC data storage (e.g. power usage)
- Error handling (acknowledge/clear errors)
- Standby management

Industrial Protocols

EtherNet/IP · Modbus TCP · MQTT · PROFINET

One Product – three ways:

Gateway between cera2heat® or cera2seal® heating systems and PLC

Interface to watttrix Digital Services

Host of graphical user interface for control and monitoring

***watttrixHub is required**

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Web Application – for next level use cases

Analyze*:

Record and store heating process data on pixel level up to 12 weeks

Visualize power usage, temperature trends and energy consumption

Configure

Temperature profile editor to configure multiple recipes

User Management with permission restrictions for operators and technicians

Control

Advanced heater control incl. temperature scales and offsets

Quick-select multiple temperature profiles depending on materials

Monitor

Detailed temperature and power usage monitoring – on pixel level

Error management and logging

*Further license is required

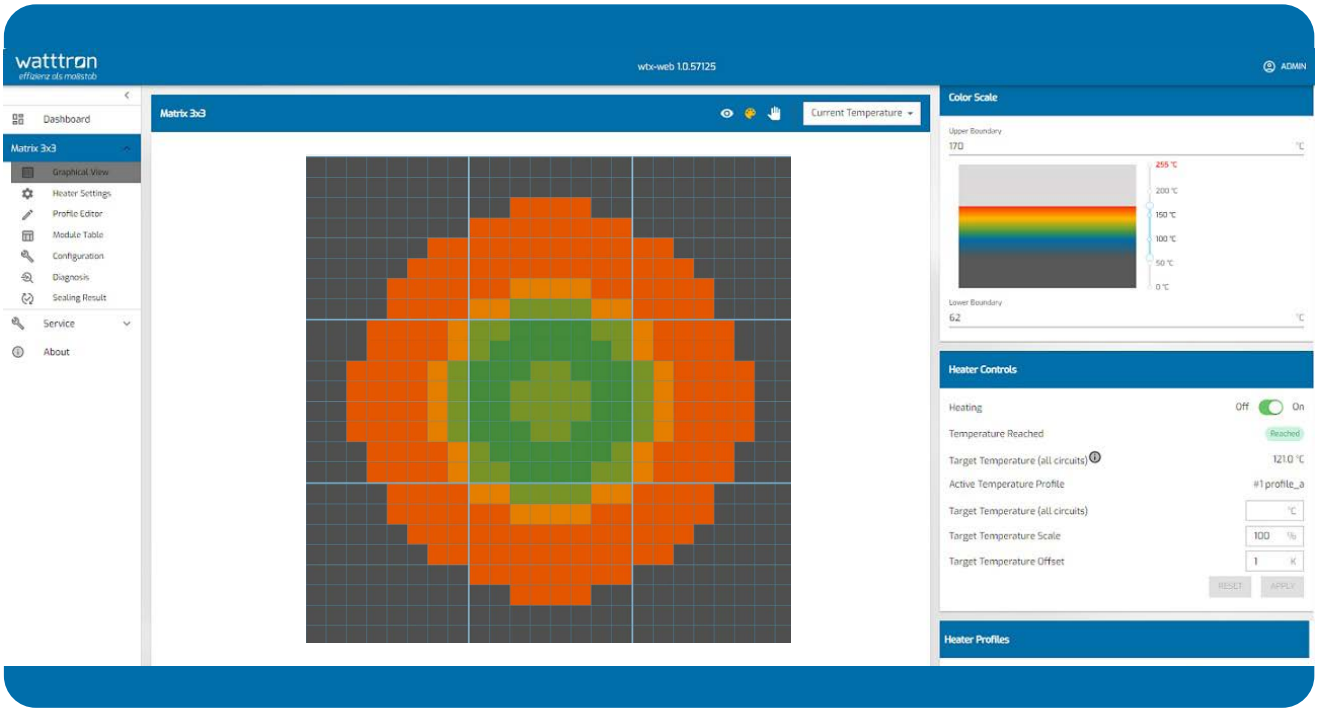
Ensure highest sealing quality*:

Advanced in-line inspection of process data to detect anomalies

Intelligent algorithm that adapts to environmental changes (no need to re-train at every production start)

Multiple models for different products and recipes

Background tasks for continuous model optimization and performance enhancements



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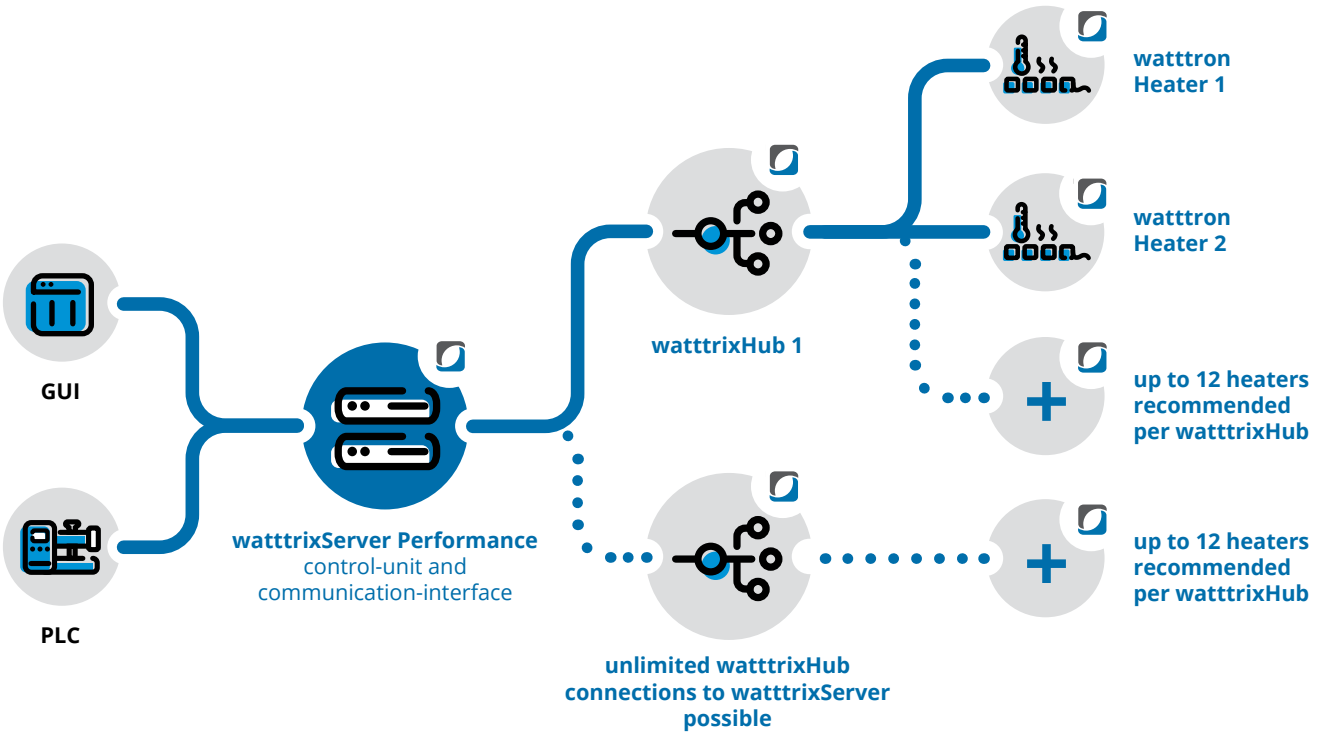
Infrastructure



Detailed Feature List

Feature	
Graphical User Interface · Dashboard overview of heaters · Heater status and temperature monitoring · Heater control (heater on/off, info target temperature reached, min/avg/max temperature, set target temperature, set temperature offsets) · Multi-temperature-profile quick-select · Individual Heater-Layout View-Management · Color Scale Panel: adjust colors and boundaries of displayed temperature values · Detailed information (temperature, power usage, chip temperature) on circuit and module level · User permission control · Temperature profile editor: for heterogenic profiles, incl. grouping of pixels, import/export and renaming · Administration of Digital IOs · Disable Pixel Self Service	✓
Digital Input · Heater Standby Management · Turn on and off Heater **Digital Output** · Target Temperature Reached Signal · Heater Status · Enable Signal	✓
Industrial Protocols · EtherNet/IP · ModbusTCP · MQTT · PROFINET	✓

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