watttron
The benchmark of efficiency

Product Data Sheet

WTXS

watttrixServer Edge

Connectivity, control and monitoring of heating systems

Hardware Parameters

Mechanical and Electrical Specifications	
Power Supply	24 V DC / 2 A
Dimensions	Appr. 70 x 47 x 138 mm (HxLxD)
Mounting type	Top-hat rail mounting (35 mm, 2 HE)
Terminal blocks grid dimension for supply plug	3.81 mm
Weight	450 g
Max. power consumption	Appr. 10 W
Ambient temperatures	From 10 °C to 40 °C
Relative humidity	Between 30 % and 60 %
Certification	CE, CB, UL 61010

Connectors	
Ethernet	1x LAN 10/100/1000 MBit/s
Heater Connection Ports	6x RS-485 - up to 350 heating pixels per connection
Digital Out	2x (24 V open-collector)
Digital In	2x (24 V open-collector, isolated)

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

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

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Web Application – for next level use cases

Configure

Temperature profile editor to configure multiple recipes

User Management with permission restrictions for operators and technicians

Control

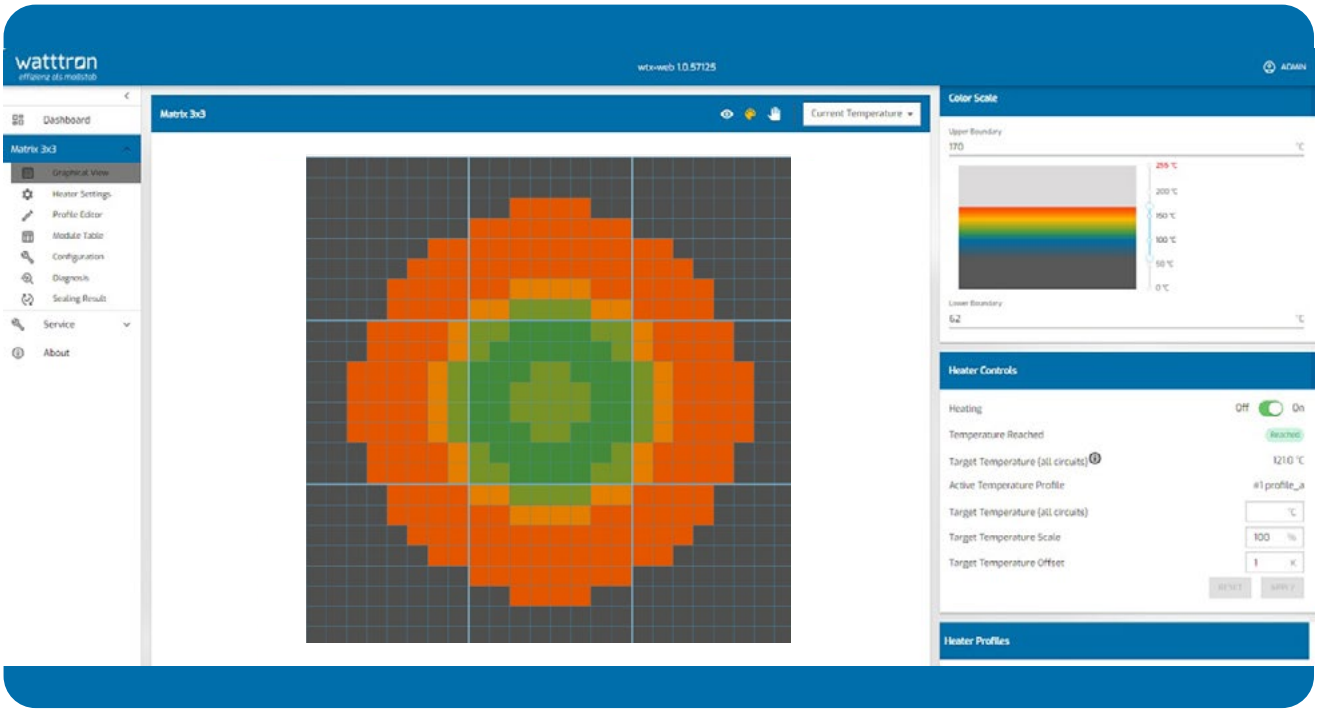
Advanced heater control incl. temperature scales and offsets

Quick-select multiple temperature profiles depending on materials

Monitor

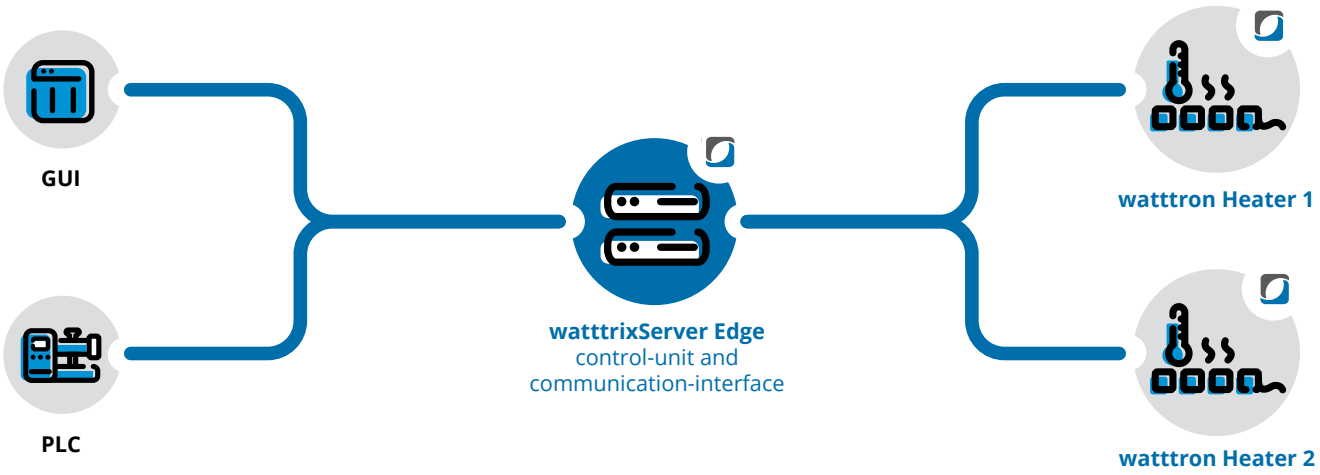
Detailed temperature and power usage monitoring – on pixel level

Error management and logging



Screen requirements: Resolution: min. 1280x800 (WXGA), recommended 1920x1080 (Full HD) - **Browser:** at least Chromium version 110 (Firefox: 115)

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	✓