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 % |

| 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 · 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

**watttron Inc.**
150 N Michigan Ave 35th Floor – Chicago, IL 60601

+1 (312) 665-0984
sales@watttron.com
www.watttron.com

 · 

## 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

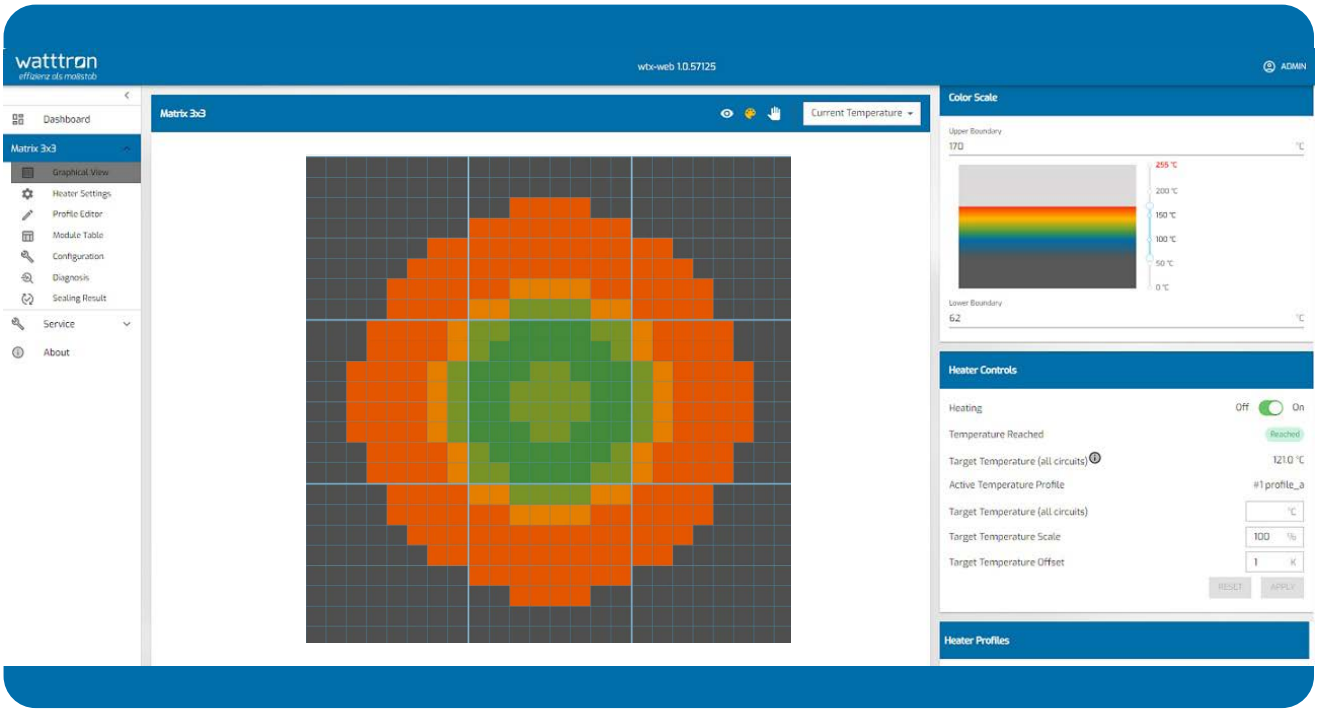
Advanced heater control incl. temperature scales and offsets

Quick-select multiple temperature profiles depending on materials

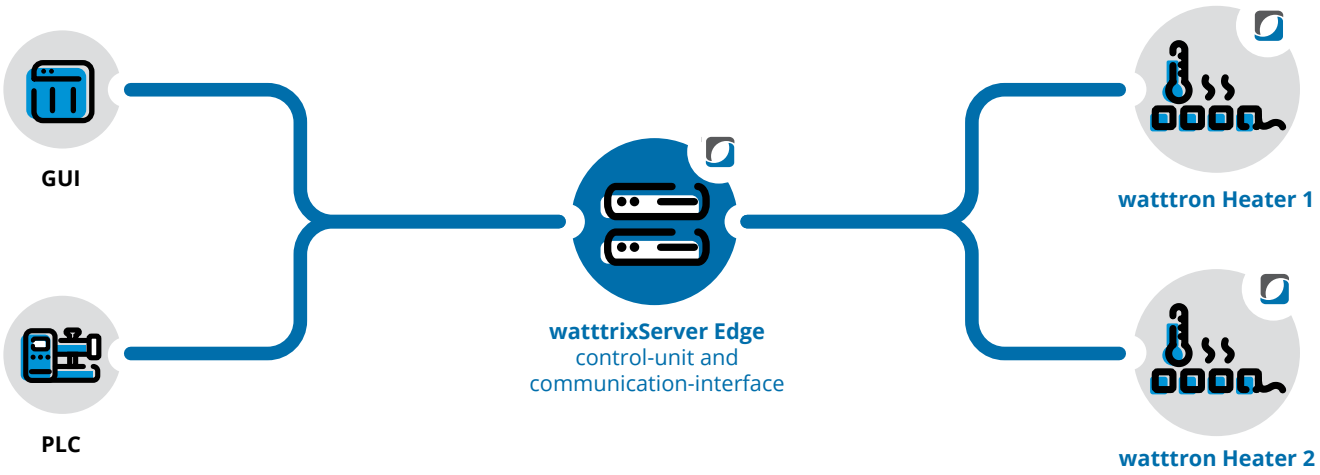
### Monitor

Detailed temperature and power usage monitoring – on pixel level

Error management and logging



## Infrastructure




## Detailed Feature List

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