

## Product Data Sheet

WTX

# watttrixServer and Application

Connectivity, control and monitoring of heating systems



watttrix

### 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




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

watttron GmbH  
Dresdner Str. 172c, D-01705 Freital

+49 351 2718080  
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

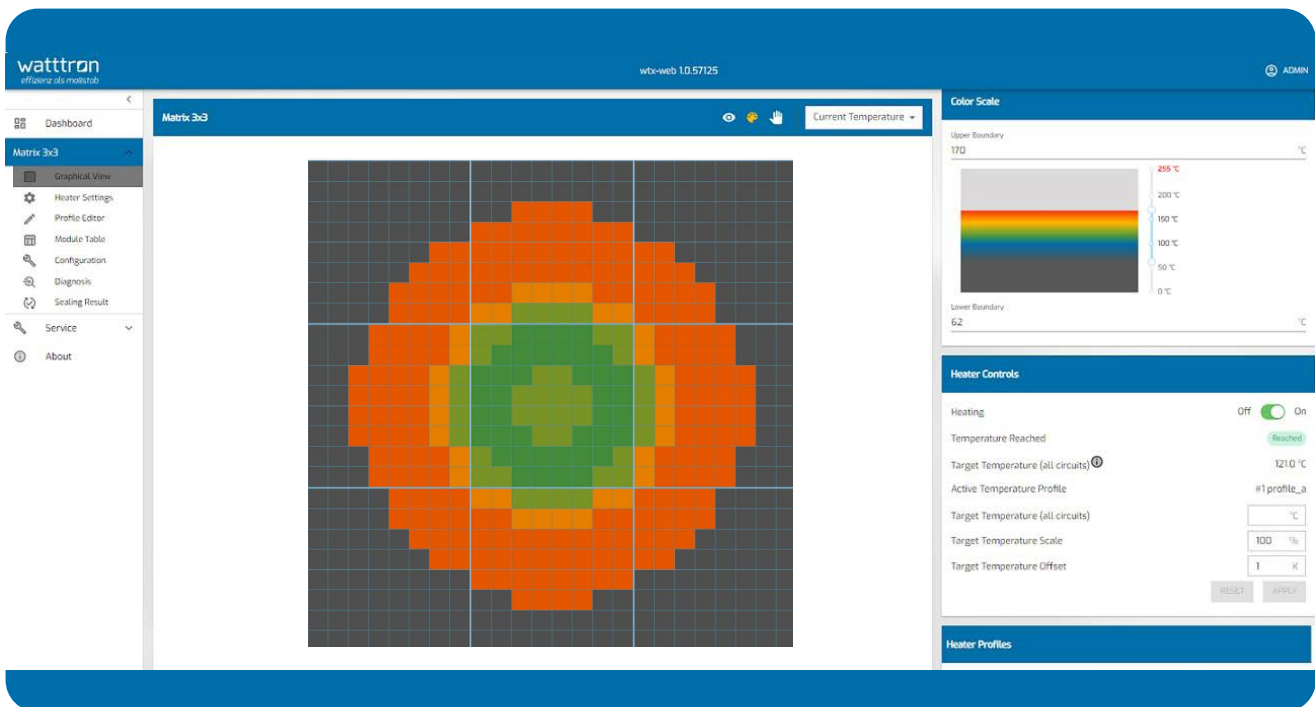
Advanced heater control incl. temperature scales and offsets

Quick-select multiple temperature profiles depending on materials

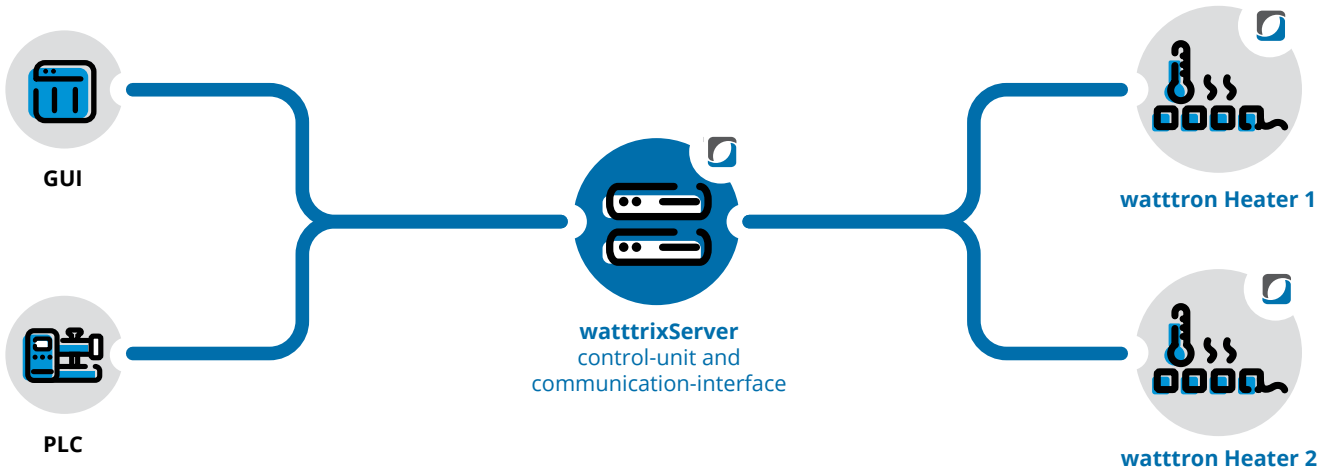
### Monitor

Detailed temperature and power usage monitoring – on pixel level

Error management and logging



## Infrastructure



## Detailed Feature List

Service	Lease	Buy
<b>Graphical User Interface</b> <ul style="list-style-type: none"> <li>· Dashboard overview of heaters</li> <li>· Heater status and temperature monitoring</li> <li>· Heater control (heater on/off, info target temperature reached, min/avg/max temperature, set target temperature, set temperature offsets)</li> <li>· Multi-temperature-profile quick-select</li> <li>· Individual Heater-Layout View-Management</li> <li>· Color Scale Panel: adjust colors and boundaries of displayed temperature values</li> <li>· Detailed information (temperature, power usage, chip temperature) on circuit and module level</li> <li>· User permission control</li> <li>· Temperature profile editor: for heterogenic profiles, incl. grouping of pixels, import/export and renaming</li> <li>· Administration of Digital IOs</li> <li>· Disable Pixel Self Service</li> </ul>	✓	✓
<b>Digital Input</b> <ul style="list-style-type: none"> <li>· Heater Standby Management</li> <li>· Turn on and off Heater</li> </ul>	✓	✓
<b>Digital Output</b> <ul style="list-style-type: none"> <li>· Target Temperature Reached Signal</li> <li>· Heater Status</li> <li>· Enable Signal</li> </ul>	✓	✓
<b>Industrial Protocols</b> <ul style="list-style-type: none"> <li>· EtherNet/IP</li> <li>· ModbusTCP</li> <li>· MQTT</li> </ul>	✓	✓
<b>Software updates</b>	✓	
<b>Exclusive previews of digital services</b>	✓	