

Preliminary version: Subject to technical modification.



## Description

The SenGenuity Human Machine Interface HMI-T-0001 is the perfect complement to the Wireless Sensor Reader WSR-T2 TempTrackr<sup>®</sup> System<sup>1</sup>. Used in conjunction with any SenGenuity wireless and passive Sensor Module the HMI-T-0001 and the WSR-T2 building a superb stand-alone monitoring system. The proprietary HMI Software ideally supports industrial requirements to group and monitor temperature sensors and allows configuration of warning and alarm thresholds. Furthermore, it also supports SenGenuity's Humidity Sensor Reader (HSR-01) and Partial Discharge (PD) functionality.

### Features

- State-of-the-art 7" TFT resistive touch screen display
- Intuitive operation
- Multiple Reader and Sensor tracking capability
- 4 digital outputs
- Internal data storage capacity
- Easy and individual configurable
- CE and FCC/IC certified

### Application

- As stand-alone monitoring system with the WSR-T2 TempTrackr<sup>®</sup> it is ideally suited for switchgear applications where cabinets are equipped with numerous wireless, passive sensor modules as well as with humidity and PD sensors<sup>1</sup>.
- Optional external data interrogation via RS485 slave interface using MODBUS RTU

## Performance Specifications

Parameter	Data				Units	Condition
	Min	Typical	Max			
Operating Temperature Range	-20		+70		°C	>60°C the HMI requires sufficient convection
Number of Sensors			1000			
Number of Readers			100			max. 50 WSR-T2 Readers and 50 HSR-01 Readers

Power Supply Possibilities					
Parameter	Min	Typical	Max	Units	Condition
Supply Voltage	10		28,8	VDC	
Power Consumption		5		W	

Additional Features
Quick System Configuration of * System Baud Rate (115200 / 9600) * Language (English / German) * Temperature Unit (°F / °C) * Time and Date Format
Easy Configuration of * Readers * Sensors and groups of sensors * Warning and alarm threshold * Digital outputs * Measurement interval <sup>2</sup> * Sensor Calibration
Display and Logging of * Temperature * Partial Discharge Events * Humidity * Status (OK / Warning / Alarm) * Time Stamp * Min / Max Values * Customized groups and names
Easy grouping of sensors * up to 90 different groups * Up to 1000 sensors per group * Customized naming of sensors and groups
Several predefined output functionalities available

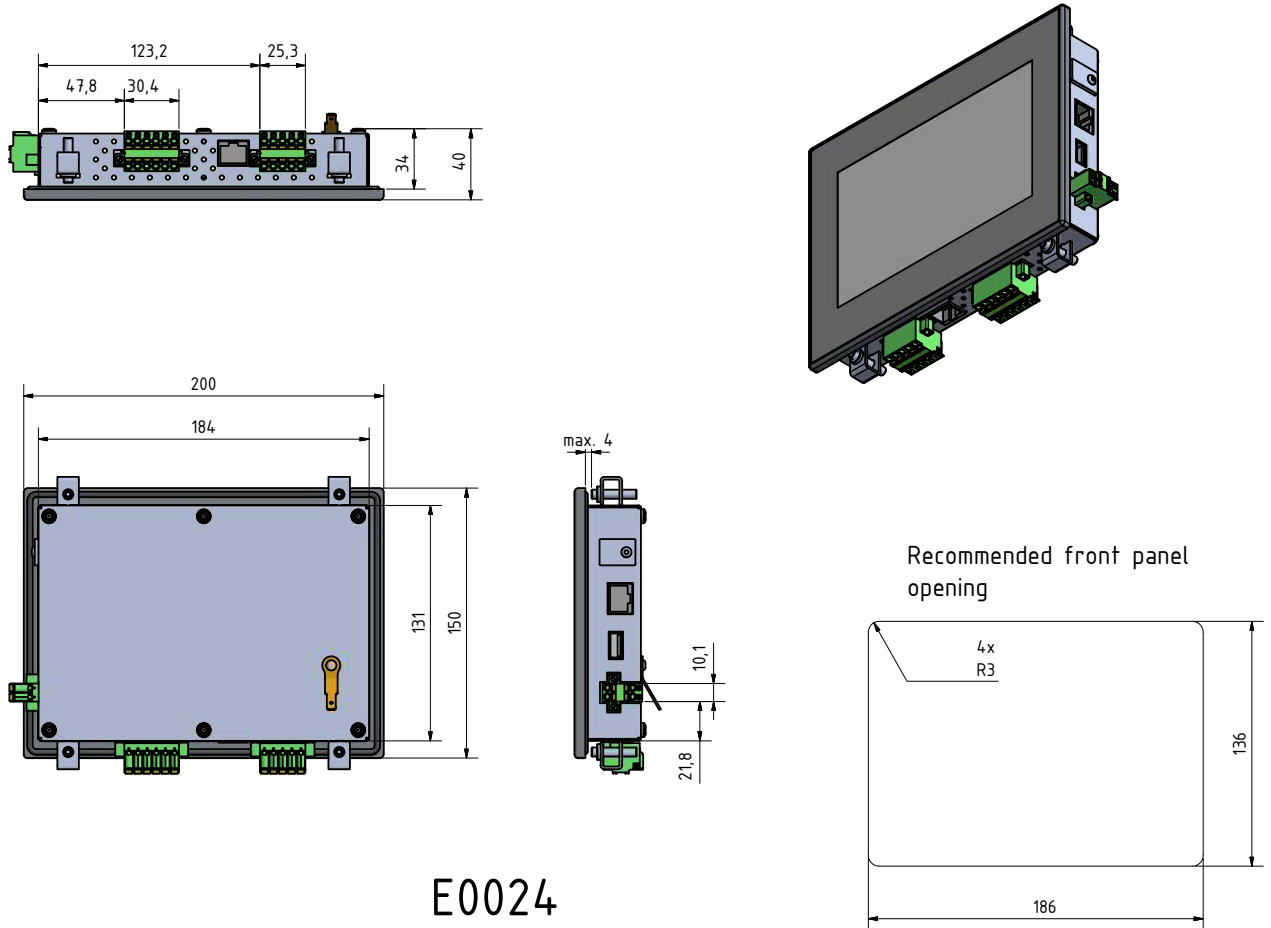
Absolute Maximum Ratings					
Parameter	Min	Typical	Max	Units	Condition
Humidity			90	%	Non condensation
Operable Temperature Range	-20		+70	°C	>60°C the HMI requires sufficient convection
Storage Temperature Range	-20		+70	°C	

Additional Environmental Conditions	
Parameter	Description
Locations subject to increased vibration and shock are not recommended	
EMI	EN61000-6-4 - Industrial interference emission EN61000-6-2 - Industrial interference immunity

**Enclosure**

Housing

7" resistive TFT touch screen display  
 Intended for panel mounting  
 200 x 150 x 35mm (LxHxW)  
 Front IP65  
 Back IP30 (with provided connectors and mounting clamps attached)  
 Weight with connectors and mounting clamps attached: 960g

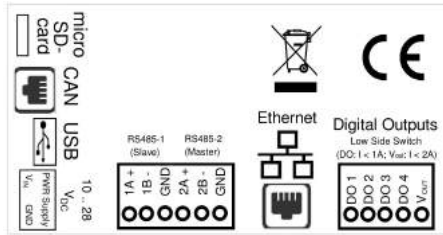


E0024

**Enclosure Markings**

Label:  
 SENGENUITY  
 HMI-T-0001  
 AYYWW Serialnumber

**Enclosure Markings**



	Description	Condition
<b>Micro SD Card</b>	16GB Included	
<b>CAN Port</b>	No functionality yet	
<b>USB Port</b>	Receive Logging Data / Update HMI Firmware	
<b>PWR Supply</b>	Pin 1: $V_{in}$ Pin 2: GND	max. 28.8V
<b>6 Pin Connector</b>	Pin 1: RS485 Slave A+ Pin 2: RS485 Slave B- Pin 3: RS485 Slave GND Pin 4: RS485 Master A+ Pin 5: RS485 Master B- Pin 6: RS485 Master GND	max. $\pm 30V$ max. $\pm 30V$ max. $\pm 30V$ max. $\pm 30V$
<b>Ethernet Port</b>	No functionality yet	
<b>5 Pin Connector</b>	Pin 1: Output (low side switch, max 1A) <sup>3</sup> Pin 2: Output (low side switch, max 1A) <sup>3</sup> Pin 3: Output (low side switch, max 1A) <sup>3</sup> Pin 4: Output (low side switch, max 1A) <sup>3</sup> Pin 5: $V_{out}$ (max 4A)	max. +28.8V; Input Current max. 1A max. +28.8V; Input Current max. 1A max. +28.8V; Input Current max. 1A max. +28.8V; Input Current max. 1A Only Voltage Output (sourced by $V_{in}$ ); max. 4A

**Installation**

Installation parameters

Mounting clamps included in delivery.  
Maximum wall thickness for installation 4mm.

## Ordering Information

Item Number	Description
720200027	HMI-T-0001 (marked with SenGenuity logo <sup>4</sup> .)

## Shipping Info

### Standard Shipping Method

Individual packaging.  
The delivery will include:

- HMI
- 16GB Micro SD Card with screwable faceplate
- Mounting clamps
- Connector terminals

**Notes:** Preliminary version: Subject to technical modification.

<sup>1</sup> The HMI requires a Wireless Sensor Reader WSR-T2 with firmware F12566P or higher

<sup>2</sup> Measurement time is dependent on used sensors, number of sensors and configuration but Minimum 30s

<sup>3</sup> A low side switch switches between open and ground

<sup>4</sup> Customized logos available on request.

## For Additional Information, Please Contact

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