

HMI Display with Relays for Continuous Temperature & Partial Discharge Monitoring

HMI-001-RELAY

Data Logging, Relay Control, Alarms, Ethernet Connectivity, and Cloud Visualization

OSENSA's HMI-001-RELAY touch panel display provides remote ethernet connectivity, real-time display and data logging for up to 99 fiber optic temperature sensors, 40 partial discharge sensors, and 36 auxiliary sensors. The unit includes 9 user programmable relays (7x 10A/250VAC and 2x 2A/30VDC) for alarms and heater or fan control. The HMI includes native support for Modbus TCP/IP (Master or Slave), IEC 61850, and DNP3 with TLS security. New features include a summary alarms page, critical event tracking, alarm silencing and differential alarms. Log files can be retrieved on a USB memory stick or over a secure FTP or SSH connection. Optional cloud connectivity enables historical and real-time graphical visualization from any web enabled device.



Product Specifications

Model Name	HMI-001-RELAY
Touch Screen	7-inch full color, 800x480 pixels
Operating System	Linux
Boot Device	eMMC 8GB, 16GB External Storage
Internal RAM	8 GB
Power	18~24 VDC, 15W max
Ethernet	RJ45 10/100 Mbps with Redundant Port available
USB	2x USB 2.0
Wi-Fi	Supported with dongle
RS-232	3 wire (Non-Isolated)
RS-485	3 wire Modbus RTU Master or Slave (Isolated)
Relays	7 form C, 10A/250VAC and 2 form A, 2A/30VDC
Network Protocols	Modbus TCP, Modbus RTU, IEC 61850, DNP3 with TLS, SFTP and SSH
User Interface	On-screen GUI, Web (HMI-Web over local IP network)
Real Time Clock	Yes, with internal battery
Operating Environment	-20°C to +70°C, 0 to 90% RH
Housing	Flame-retardant ABS, IP65 water resistant front panel
Dimensions	187mm Wide x 124mm High x 77mm Deep
Weight	860g
Product Compliance*	 

TECHNICAL SUPPORT

OSENSA Innovations offers on-site support, commissioning, and training for all of its products. For immediate assistance with any technical issue, please contact support@osensa.com or call 1-888-732-0016.

WARRANTY INFORMATION

OSENSA Innovations stands behind its products and services. All fiber optic temperature probes and signal conditioners ship with a full one year repair or replacement warranty. You may also purchase an extended five year warranty. Some conditions apply.

CUSTOM OEM SOLUTIONS

OSENSA offers cost-effective design and consulting services at discounted rates for high-volume OEM customers. Let the engineering team at OSENSA Innovations help you rapidly develop custom probes for your research application. OSENSA's team has many years of experience designing fiber optic temperature probes for various laboratory environments.

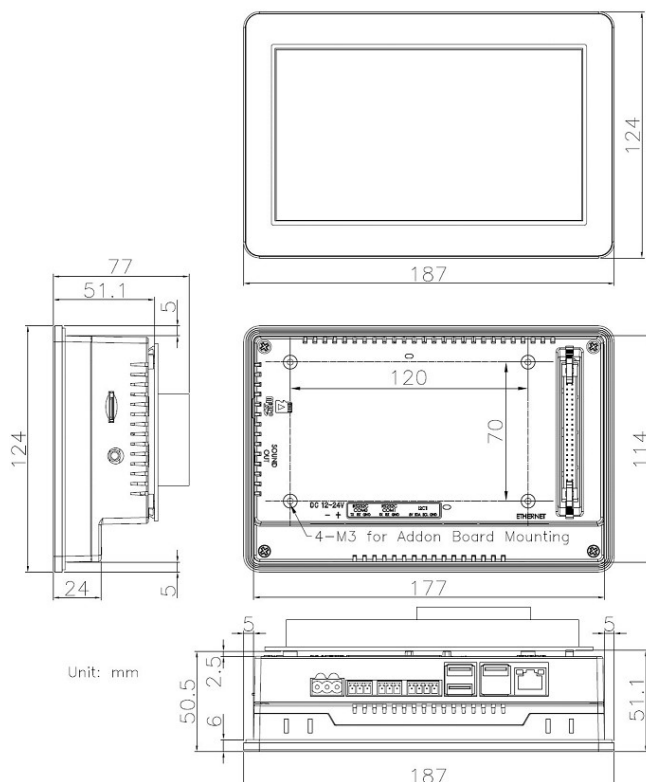
FURTHER INFORMATION

For more information on any of our products or services please visit our website: www.osensa.com or email: info@osensa.com.

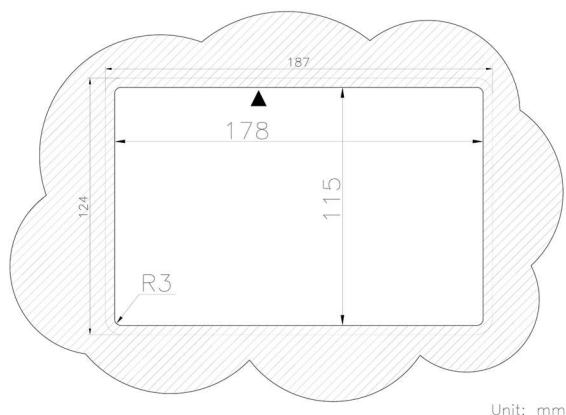


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Product Dimensions



Panel Cut-out Dimensions



DIN-Rail Mount Installation

To mount the HMI-001-RELAY to a DIN-rail, the FGA-0159A ACC-HMI-DIN-MOUNTING-KIT is available from OSENSA Innovations. Refer to the MAN-DMK-0074A user manual for installation instructions.

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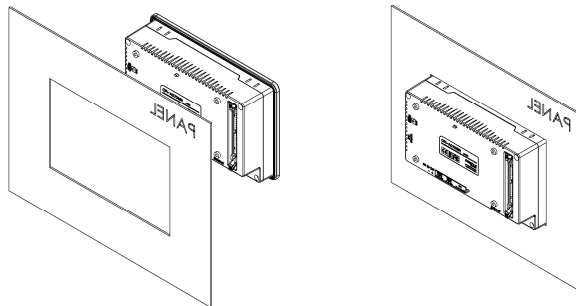
For more information on any of our products or services please visit our website: www.osensa.com or email: info@osensa.com.



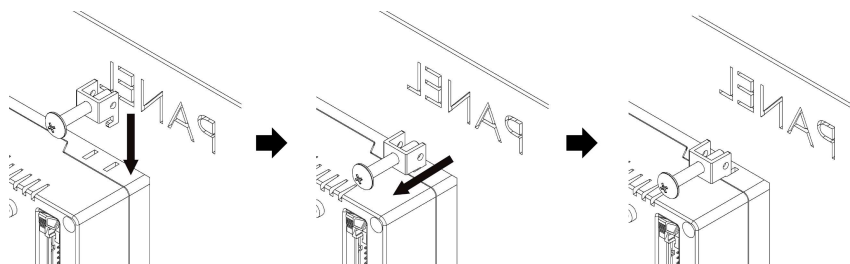
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Panel Mount Installation

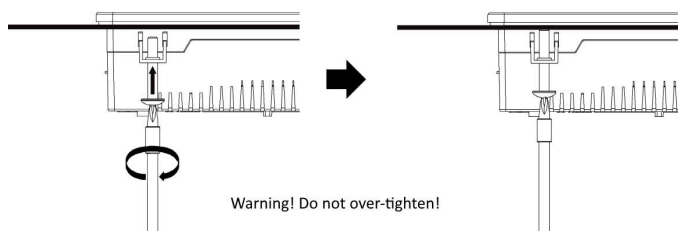
1. Prepare a panel cut-out according to the dimensions noted above and insert the display into the cut-out.



2. Insert the panel mount brackets into the bracket mounting holes as shown in the image below, pulling the bracket to lock it into place.



3. Tighten the bracket mounting bolts to secure the display to the panel. **The recommended torque is 0.4 Nm.**



Warning! Do not over-tighten!



4. Repeat for each bracket and verify that the display is properly mounted and secured to the panel.

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