

# HMI Training Kit



**Kit Code :ES-HM**

## Overview

The EISAC HMI Industrial Training Kit is a specialized, all-in-one platform designed for mastering industrial interface design and SCADA-lite visualization.

Centered around the industry-leading Siemens KTP700 Basic, this kit enables engineers to bridge the gap between backend logic and frontend user experience. Housed in a ruggedized, portable enclosure, it provides a realistic environment for practicing alarm management, real-time data trending, and complex industrial graphic design, making it an essential tool for modern automation education.

## TRAINING EXPERIMENTS

GUI Design: Creating professional industrial dashboards and navigation menus

Alarm Management: Configuring discrete and analog alarms with logging

Trend Visualization: Designing real-time and historical data trend graphs.

User Administration: Implementing password protection and security levels.

Multi-Language Support: Developing interfaces with bilingual/multi-lingual toggle

## SAFETY FEATURES

Fused Protection: Main AC input is guarded by an industrial-grade safety fuse

DC Current Limiting: Internal 24V supply features short-circuit protection

Safety Terminals: 4mm shrouded banana jacks for touch-safe auxiliary power

Isolation Barrier: Full galvanic isolation between high-voltage and logic components

Status Indication: Illuminated master switch for clear "Power-On" visibility

## SYSTEM COMPONENTS

Primary Display	Siemens SIMATIC KTP700 Basic (7-inch TFT Widescreen)
Interface Panel	Professional Control Surface with logical functional grouping
Communication Hub	Industrial RJ45 LAN Port supporting PROFINET protocols
Data Interface	Accessible USB Port for data logging and firmware updates
Signal Access	Standardized Banana Jacks for I/O signal interfacing
Power Unit	Integrated 24V DC Supply with external power terminals

## TECHNICAL SPECIFICATIONS

Display Quality	800 x 480 pixel resolution with 65,536 colors
Control Input	High-sensitivity touchscreen plus 8 tactile function keys
Input Power	Universal 220V AC with illuminated safety master switch
DC Output	Dedicated 24V DC terminals for powering external sensors
Networking	10/100 Mbps PROFINET interface for seamless PLC linking
Signal Support	Supports both Digital and Analog signal visualization

## MECHANICAL SPECIFICATIONS

Chassis Design: Heavy-duty, impact-resistant "Hard Case" for high portability

Panel Finish: Industrial-grade control surface with permanent laser-etched labeling

Layout Ergonomics: Meticulously organized front panel for intuitive operation

Vibration Protection: Shock-absorbent mounting for the HMI and internal electronics

Mobility: Equipped with a reinforced handle and secure latches for field use

## SOFTWARE & COMPATIBILITY

Programming Tool: Siemens WinCC Basic (TIA Portal V13 or higher)

OS Support: Fully compatible with Windows 10/11 Professional

Connectivity: Standard Ethernet Cat6 interface for PC and PLC communication



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