

Compact and secure control for data centers

Smart integration with Harmony ST6 and Modicon 172

The Harmony ST6 HMI and Modicon M172 controller combine to deliver a powerful, space-saving solution for data center environments.

Designed for seamless integration, this duo offers great performance monitoring and control with secure communication, robust reliability, and a compact footprint.

Architecture overview

Liquid cooling machine, chiller, and cooling tower machines



Harmony ST6



AI Servers (GPU)



Modicon M172



Connected devices

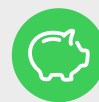
Benefits



EcoStruxure™ integration



Secure



Cost efficiency



Robust and sustainable

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Customer challenges

- Limited space to install all necessary components
- Secure communication across systems
- Stable and reliable operation in data center environments
- Need to monitor and operate on-site equipment efficiently
- Monitor system from remote through secure connection

Our solution

Modicon M172 controller

- **Scalability** – flexible I/O configurations to meet diverse field requirements
- **Flexible connectivity** – supports BACnet, Ethernet, SNMP, and more
- **Compact** – ideal for space-constrained installations
- **Easy integration** – designed for data center applications

Harmony ST6 HMI

- **Cost-effective performance** – powered by EcoStruxure Operator Terminal Expert, with easy access to a wide variety of compound objects, icons, and templates for faster screen design creation
- **Better visualization** – wide size range of displays (from 4-inch wide to 15-inch wide) with 16 M colors for crisp, detailed visuals
- **Secure communication** – ensures data protection and remote monitoring with WebViewer via EcoStruxure Secure Connect
- **Easy installation and robust design** – sleek aluminum front panel and industrial grade compliant

Key benefits

- Tight integration between controller and HMI
- End-to-end security for peace of mind
- Cost efficiency without compromising performance
- Robust and sustainable solution for modern data centers

References

Commercial reference	Description
HMIST6400	Touch panel screen, Harmony ST6, 7-inch wide display, 2COM, 2Ethernet, USB host and device, 24 VDC
TM172PDG42SI	Controller, Modicon M172, performance, display, 42 IO, Ethernet, solid state relay
HMI EOTE BTP1SY	EcoStruxure Operator Terminal Expert, Digital License

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