



HMI Touch Screen Operator Panel (828)

(Engine Control Systems)

Description

The HMI (Human Machine Interface) is a state of the art 15" Industrial Color Touch Screen operator panel, developed to expand the control system by providing a window into the complete system, displaying current / historical information and alarm handling. The HMI is made up of a series of screens, each screen representing a group of complementary data, designed to deliver the information in a user-friendly manner.

The industrialized HMI utilizes Flash memory and hence does not have any moving parts like a conventional PC using a Hard Disk Drive, making it more robust and less susceptible to failure.



HMI Screen Pages

User-friendly touch screen pages allow operators to monitor, control and troubleshoot your system locally or remotely:

Menu Page

System Overview Page

Control Page:

- Start, Stop Sequencing
- Speed/Load Raise, Lower,
- Droop/Isoch Mode Selection
- Baseload Mode Selection

I/O Status Page

Control PID Page

Alarm and Shutdown Indication

Trend Page (held for 12 hours)

Information Page

HMI Software

The Software is a powerful suite of automation software tools, with scalable building blocks for developing everything from HMI, SCADA (Supervisory Control and Data Acquisition) systems and embedded instrumentation and control applications.

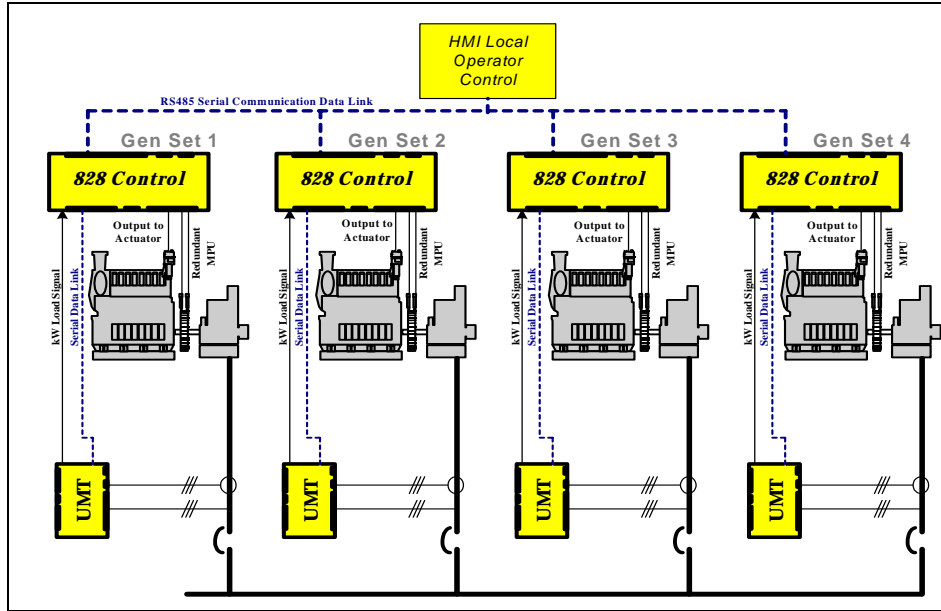
GCS has developed and written application software for many systems. Custom applications and screens are available for an additional charge. A unique part number is assigned to the custom control to differentiate it from the standard.



828 Application

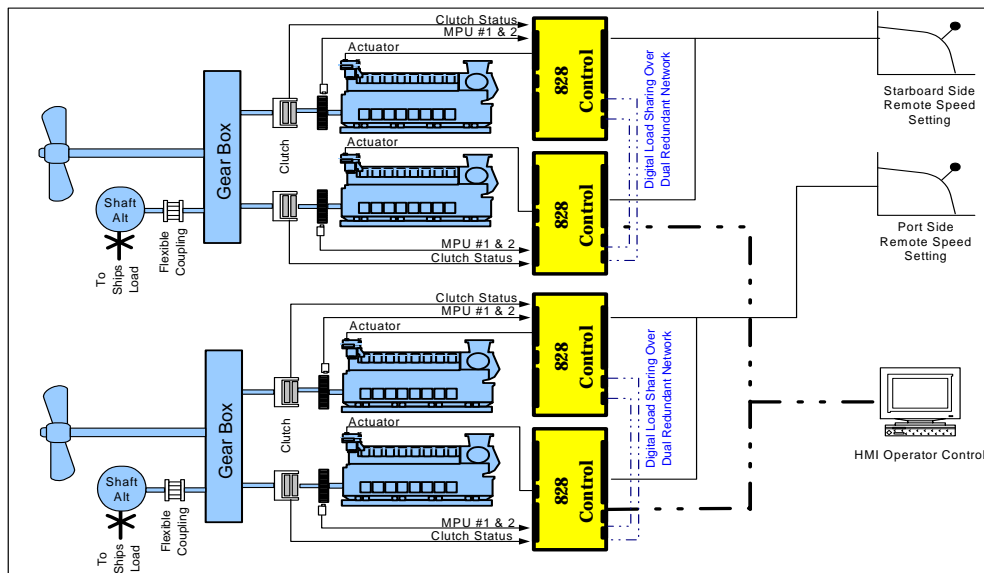
Power Generation Control system

Each autonomous engine control unit provides control, alarm and monitoring of its associated engine generator set.



Marine Propulsion Control System

The control provides speed governing, mechanical load sharing, clutching/ declutching control logic, speed matching during clutching, and soft engine loading/unloading.





Specifications

Display: 15" XGA TFT LCD

Resolution: 1024x768

Viewing Angle(°): 140

Backlight: 4 CCFL

Max Colors: 16.77 million

Power Input: 24Vdc, 2A maximum

Computer:

CPU & core logic: Transmeta® Crusoe™ 5400

Storage: Compact Flash

I/O Capability: 3 Serial Ports (2xRS232, & 1xRS232/442 /485), 1 Parallel port, 1 Ethernet port (10/100Base-T), 2 USB Ports, 1 PS/2 port, 2 PCMCIA slots.

Environmental:

Operating Temp: 32° - 122°F (0°-50°C)

Relative Humidity: 10% - 95% @ 40°C, non-condensing

EMI: FCC class A certified, BSMI certificated

CE certified:

Front Panel meets **NEMA4 / IP65**

Software:

Runtime License: Included in the Hardware

Application Software: Developed by GCS

Touchscreen: Type: 4-wire, Analog Resistive,
Life 100 million

Dimension (WxHxD): 15.08"x 12.09" x2.17"
(383x307x55mm)

Weight: 8.37 lbs (3.8 kg)

Construction: Al-Mg and plastic molding

