

Graphic OIT

# Silver Series

## HMI5043N



### 4.3" 65K Color TFT LCD Touchscreen



- 480 x 272 pixel resolution
- Compact Size
- Popup windows and animation
- Multi-language feature
- Alarm management
- Online/offline simulation
- 24 VDC, low power consumption
- Most popular PLCs supported
- 2 year warranty

The HMI5043N is our smallest graphic operator interface in the Silver Series.

The bright 4.3" TFT display supports up to 65K colors and has a higher resolution (480 x 272 pixels) than most 6" screens. This model is designed for applications that require a rugged compact operator interface with low power. The HMI5043N operates on 24 VDC and has a power saving mode that reduces current to the display to save energy. This industrial terminal requires only 1.5" of depth when mounted to a panel.

As part of our popular Silver Series product line, the HMI5043N can communicate to a wide variety of PLCs and motion

controllers, from over 30 major manufacturers. The OIT is very easy to configure using our EZware software with pick-and-place objects including bar graphs, meters, text objects, numeric entry, trend graphs, and alarms. The built-in simulation feature means you can easily test and modify your project before downloading to the HMI5043N.



Perhaps the best feature of the HMI5043N is the low cost. You now have the option of using an intuitive color graphics touchscreen

in applications that formerly required a text-based display due to budget constraints.

The HMI5043N is reliable, affordable, loaded with features, and easy to use. It is another smart solution from the operator interface experts.

**Every Machine Needs  
the Human Touch**



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# HMI5043N Specifications

## Hardware

|              |                                                   |
|--------------|---------------------------------------------------|
| CPU Type     | 400MHz 32-bit RISC                                |
| Memory       | 128MB Flash, 64MB DRAM                            |
| Serial Ports | Com1: RS-485 (HMI to PLC),<br>RS-232 (HMI to PLC) |
| USB          | 2.0 x1 Client (project transfer by cable)         |
| RTC          | None                                              |

## Display

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| Type                            | 4.3" TFT color                                    |
| Size (WxH)                      | 3.74 x 2.12 inches [95.0 x 53.9 mm] 4.3" diagonal |
| Resolution (pixels)             | 480 x 272                                         |
| Brightness (cd/m <sup>2</sup> ) | 450 LED Backlight                                 |
| Contrast Ratio                  | 500:1                                             |
| Max Colors                      | 65,536                                            |
| Viewing Angle (°)               | 80/80/80/80 (T,B,R,L)                             |
| Backlight Longevity             | 50,000 hrs                                        |

## Touchscreen

|                    |                               |
|--------------------|-------------------------------|
| Type               | 4 wire analog resistive       |
| Resolution         | Continuous                    |
| Light Transmission | Above 80%                     |
| Lifespan           | 1 million activations minimum |

## Environmental

|                       |                                         |
|-----------------------|-----------------------------------------|
| Operating Temperature | 32 ~ 113°F (0~45°C)                     |
| Storage Temperature   | -22 ~ 158°F (-30 ~ 70°C)                |
| Relative Humidity     | 10-80% rH@40°C non-condensing           |
| Shock (operation)     | 10 to 25Hz (X,Y,Z direction 2G, 30 min) |
| Ratings               | IP65, NEMA4, NEMA4X (indoor only)       |
| Certifications        | CE, EMI FCC Class A, cULus pending      |

Specifications may change without notice.

## Functionality

|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| Data Transfer         | Share data between HMIs and PLCs                                                    |
| Data Logging/Sampling | Up to 1000 records, time/trigger-based                                              |
| Windows Fonts         | Unicode support, international characters                                           |
| Multiple Languages    | Up to 8 languages per object                                                        |
| Security              | 6 levels, 3 passwords per level,<br>interlock safety feature, visibility protection |
| Macros                | Math functions, 32-bit float support                                                |
| Recipe Management     | Up to 32,767 records, Index Feature                                                 |
| Alarm Management      | Four priority levels, organize by category,<br>real-time or history                 |
| Trending              | Up to 20 channels, real-time or history,<br>watch line feature                      |
| Ease of Use           | Popup windows, offline/online simulation                                            |

## Mechanical

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Enclosure                     | Plastic molding                                  |
| Dimensions (WxHxD)            | 5.04 x 4.02 x 1.50 inches<br>[128 x 102 x 38 mm] |
| Panel Cutout Dimensions (WxH) | 4.69 x 3.66 inches<br>[119 x 93 mm]              |
| Weight                        | 0.7 lbs [0.3 kg]                                 |
| Mounting                      | Panel                                            |
| Power Requirements            | 24VDC, 250mA maximum                             |
| Warranty                      | 2 years                                          |

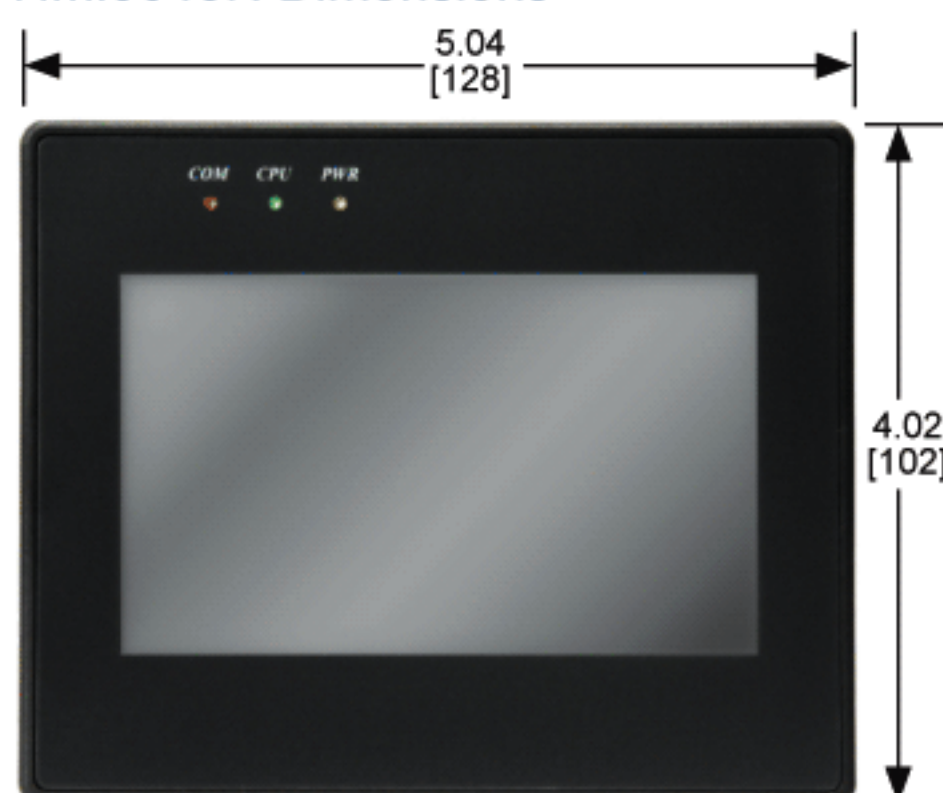
## Order Number

|          |                      |
|----------|----------------------|
| HMI5043N | 4.3" TFT Graphic OIT |
|----------|----------------------|

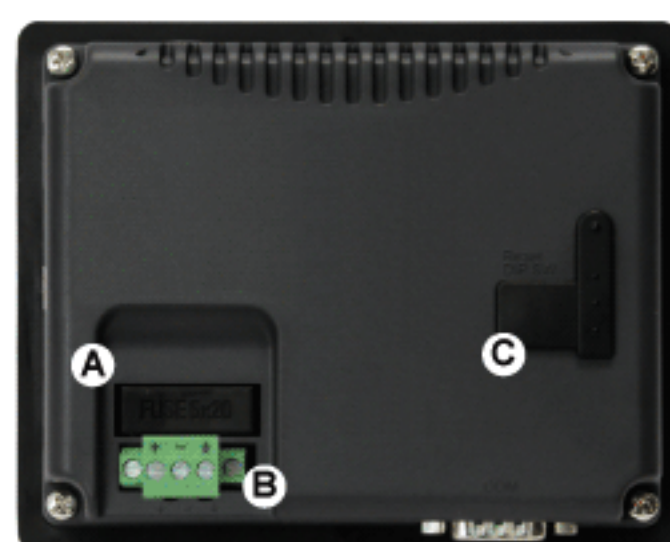


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## HMI5043N Dimensions



Front View



Rear View



Bottom View

- A Fuse
- B Power Connector
- C Dust Cover
- D USB 2.0 Client
- E Com Port DB9P

Dimensions in inches [mm]