

I/A Series®

MicroNet Touch Screen Display

The I/A Series MicroNet Touch Screen Display (Touch Screen) is a graphical LCD display that allows a user to view and configure parameters, and view parameter values, for multiple controllers on a network. There are models designed to work on LonWorks® FTT-10 Free Topology, NCP, or ARCNET communications networks, and wall-mount and panel-mount versions are available for each network type. A Touch Screen is cable-connected directly to a compatible network. Controller parameters can be configured to cause alarm indications on the Touch Screen. The Touch Screen contains a built-in RTC (Real Time Clock) that can be configured to be the master timekeeper for a network. A lithium battery provides backup power for the RTC. The touch-sensitive keypad works easily with the screen's intuitive graphical representation of common control parameters. The display, whose parameters are configured from the MicroNet Tech Tool, shows the user 16 menu items, with each giving access to 16 controller parameters.

Applications

The Touch Screen is fully programmable and provides the following functionality to a MicroNet Network:

- Configuration of Scheduling and Parameters in Networked Controllers
- Alarm Viewing and Management
- Parameter Polling of devices on NCP networks
- View of Logging in Networked Controllers
- Setpoint Monitoring

Connectivity

The Touch Screen is connected directly to a LonWorks, NCP, or ARCNET network. It connects to a PC running the MicroNet Tech Tool, via the MicroNet Interface.



LonWorks®

Features—

- Back-lighted graphic LCD display.
- Panel-mounted and wall-mounted models available, with cable-connection to a compatible network.
- Intuitive, graphics-based menu system.
- Built-in RTC with battery backup.
- Secure password protection.
- Parameters are configured in MicroNet Tech Tool.
- Screen configuration is saved on EEPROM, providing parameter protection from power outage.



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Table-1 Model Chart.

| Model | Description | Communications | Mounting Method |
|---------|---|----------------|-----------------|
| MNA-TSP | I/A Series MicroNet ARCNET Touch Screen Display | ARCNET | Panel-Mount |
| MNA-TSW | | | Wall-Mount |
| MNL-TSP | I/A Series MicroNet LonWORKS Touch Screen Display | LonWORKS | Panel-Mount |
| MNL-TSW | | | Wall-Mount |
| MNN-TSP | I/A Series MicroNet NCP Touch Screen Display | NCP | Panel-Mount |
| MNN-TSW | | | Wall-Mount |

Hardware Specifications

Dimensions Approx. 4.25" high x 9.6" wide x 0.5" deep (108 mm x 244 mm x 13.5 mm).

Enclosure Molded ABS plastic case. Fire resistant to UL94.

Communications Ports 2 Serial RS485 ports.

Power Supply Input 24 Vac. RTC has lithium battery (350 days life at continuous discharge).

Maximum Power Consumption 8 VA at 24 V, 50/60 Hz.

Surge Immunity Compliance

ANSI C62.41 (IEEE-587, Category A & B).

Agency Listings

FCC, Class A

UL Listed

UL-916 (File #E189143 Category PAZX).

UL Listed to Canadian Safety Standard (CAN/CSA C22.2).

European Community – EMC Directive (CE)

Emissions EN50081-1

Immunity EN50082-1

Mounting Panel-mounted or wall-mounted.

Ambient Limits

Operating Temperature 32 to 104 °F (0 to 40 °C).

Shipping and Storage Temperature -40 to 160 °F (-40 to 71 °C).

Humidity 0 to 95% RH, non-condensing.

Software Specifications

The Touch Screen displays, and allows configuration of, controller parameters. Table 2 lists some of these parameters and details their use.

Table-2 Touch Screen Menu Options.

| Menu Option | Detail |
|---------------------------------|--|
| Change an Analog Value | <ul style="list-style-type: none"> User can increase or decrease the parameter values within a specified range. |
| Change Digital Parameters | <ul style="list-style-type: none"> User can choose ON, OFF, or NONE (Auto) for the chosen parameter. |
| Change/Set a Time Schedule | <ul style="list-style-type: none"> Date, hour, and minutes are selectable by the user. |
| Change/Set a Holiday Schedule | <ul style="list-style-type: none"> Start/end holiday, date is selectable by the user. |
| View an Optimizer Histogram/Log | <ul style="list-style-type: none"> User can view a histogram (graph) and log of start times for optimiser mode. |
| Review Alarms | <ul style="list-style-type: none"> User can see all parameters with alarm attributes attached. |
| Acknowledge Alarms | <ul style="list-style-type: none"> User can view and acknowledge alarms. |
| View Logging Graph Trends | <ul style="list-style-type: none"> User can specify and view logged trend data in a graph. |

Communications

LONWORKS Networks A LONWORKS communications network uses an FTT-10 Free Topology configuration and can host up to 62 LONWORKS devices. Controllers on a LONWORKS network can communicate with each other in a peer-to-peer fashion, and connect to the MicroNet View and MicroNet Tech Tool software platforms via the MicroNet Interface. The MicroNet Interface supports an ENM (Embedded Network Management) database with a complete listing of all devices on the network and the connections (bindings) between them. MicroNet View provides alarm management, and dynamic and historical logging for the network. An optional Touch Screen Display (MNL-TSP or MNL-TSW) may be cable-connected directly to the LONWORKS network, to interface with connected MicroNet controllers. A LONWORKS network has a communications speed of 78.8k baud, using unshielded, twisted-pair cabling.

NCP Networks When neither open protocol nor peer-to-peer communications are required, an NCP network may be a cost-effective solution. An NCP network communicates in a polled-response fashion. Controllers on an NCP network

connect to the MicroNet View and MicroNet Tech Tool software platforms via the MicroNet Interface. An optional Touch Screen Display (MNN-TSP or MNN-TSW) may be connected directly to the NCP network, to interface with connected MicroNet controllers. An NCP network has a communications speed of 9.6k baud.

ARCNET Networks If an open protocol is not necessary, but peer-to-peer communications and high performance are desired, the ARCNET network option may be implemented. An ARCNET communications network can host up to 127 devices. Controllers on an ARCNET network can communicate with other controllers in a peer-to-peer fashion, and connect to the MicroNet View and MicroNet Tech Tool software platforms via the MicroNet Interface. An optional Touch Screen Display (MNA-TSP or MNA-TSW) may be connected directly to the ARCNET network, to interface with connected MicroNet controllers. An ARCNET network has a communications speed of 156k baud.

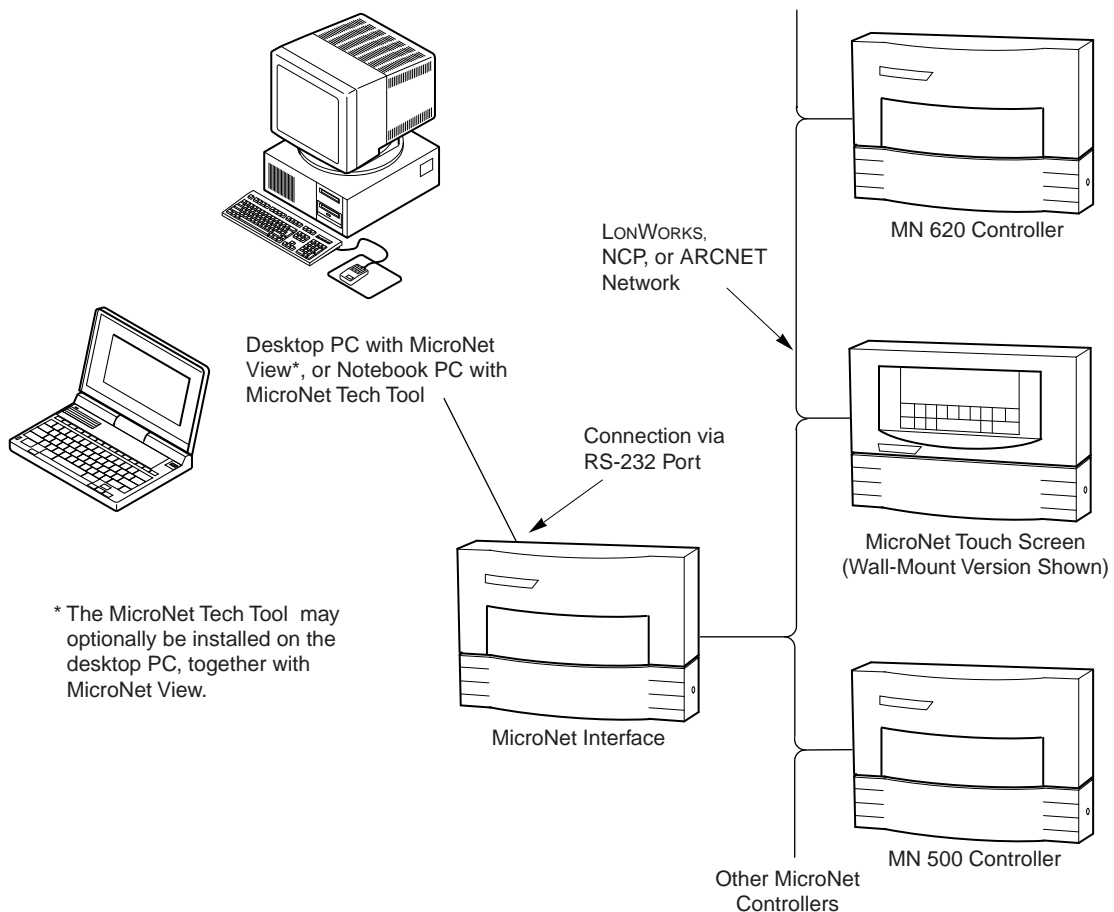


Figure-1 I/A Series MicroNet Touch Screen Display Connectivity.

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