

MODEL 652

Loop Power Supply

- Three DC Voltage Outputs
- DC Output Currents to 150mA
- 5 Year Unconditional Warranty

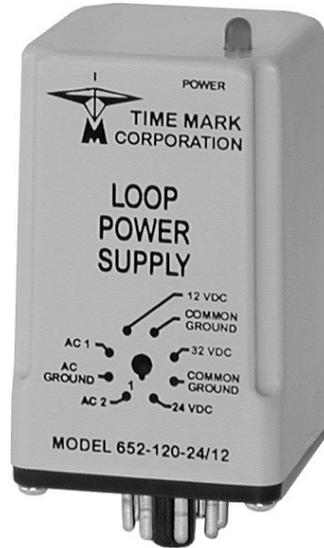
DESCRIPTION

The **Model 652 Loop Power Supply** provides DC power for instrumentation control modules.

Each option provides three output selections as shown in the table below. For example the Model 652-120-12 has output options of 12VDC regulated, 16VDC unregulated, and 5VDC regulated.

All outputs for the Model 652 are floating, electrically isolated from ground. A power status indicator (LED) is located on the top of the unit. The POWER LED comes ON when power is applied.

Applications for this device include two-wire loop transducers (pressure, voltage, or current), alarm indicators, meters and timers.



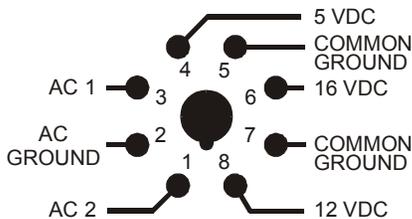
SPECIFICATIONS

| Model | 652 |
|--------------------------|----------------------------------|
| Supply voltage | 120VAC |
| Operating frequency | 60Hz |
| Power consumption | 6 watts maximum |
| Outputs | See table below |
| Maximum combined current | 150mA |
| Operating temperature | -20° to +50° C |
| Humidity tolerance | 0-97% w/o condensation |
| Enclosure material | ABS plastic |
| Weight | 10 ounces |
| Mounting | 8-pin socket (*order separately) |

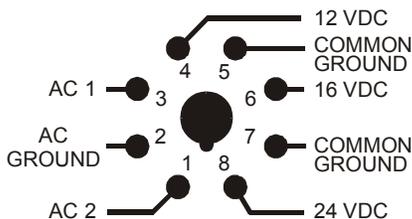
* Order 8-pin socket number 51X120

PIN DRAWING (Bottom view of unit)

Model 652-120-12/5



Model 652-120-24/12

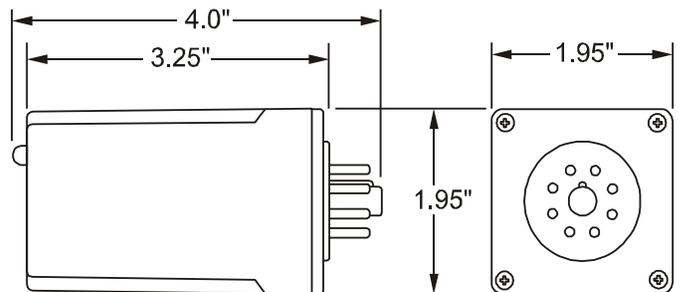


MODEL 652 OUTPUT OPTIONS

| Model 652-120-12/5 | Model 652-120-24/8 | Model 652-120-24/12 |
|--------------------|--------------------|---------------------|
| 12VDC regulated | 24VDC regulated | 24VDC regulated |
| *5VDC regulated | *8VDC regulated | *12VDC regulated |
| 16VDC unregulated | 32VDC unregulated | 32VDC unregulated |

*75 ma maximum

DIMENSIONS



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MODEL 652 Loop Power Supply

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.
KEEP THIS DATA SHEET FOR FUTURE REFERENCE.

GENERAL SAFETY

POTENTIALLY HAZARDOUS VOLTAGES ARE PRESENT AT THE TERMINALS OF THE MODEL 652.
ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING.
THIS DEVICE SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

Installation Instructions

WARNING

The Model 652 Loop Power Supply is only to be used with the 120VAC nominal input voltage.

INSTALLATION

Connect the 60Hz input power to pins 1, 2 and 3 on the 8-pin socket, following the Model 652 base diagram pictured on the unit (and on this data sheet).

Depending on the desired DC voltage output, connect the DC load device to the appropriate socket output pins.

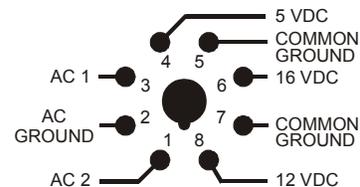
NOTE: When installing the Model 652 Power Supply in areas of high humidity or contamination, it is recommended that the base area and all exposed metal parts of the socket be coated liberally with a good quality silicone grease, such as Dow Corning DC-4 or DC-4X. Insert the unit into the socket and wipe off excess grease around the base. This will prevent the entrance of moisture and other contaminants into the base and socket areas.

TROUBLESHOOTING

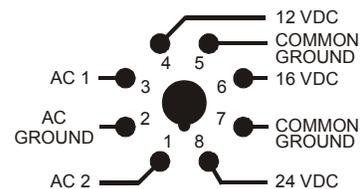
Should the Model 652 Loop Power Supply fail to operate, check all connections. Verify that the proper input source voltage is present, and check all fuses. After you have verified the input voltage, note the following: *The power status indicator (LED), located on top of the unit will be OFF if the output is shorted or overloaded.* Should problems persist, disconnect the output lines, and measure the output voltages.

NOTE: This pin drawing represents the bottom view of the Model 652 Loop Power Supply module.

Model 652-120-12/5



Model 652-120-24/12



WARRANTY

This product is warranted to be free from defects in materials and workmanship, and is covered by our exclusive **5-year Unconditional Warranty**. Should this device fail to operate for any reason, we will repair it for five years from the date of manufacture. For complete warranty details, see the *Terms and Conditions of Sales* page in the front section of the Time Mark catalog or contact Time Mark at 1-800-862-2875.

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