

Gould Modicon Micro 84 Programmable Controller

PROGRAMMING GUIDE/P190 PROGRAMMER

SUBJECT: Instructions for using the Micro 84 Programmer and Tape Loader Tape (AS-TM84-001) with the Modicon P190 Programmer and the Micro 84 Programmable Controller.

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PREFACE

This guide contains information on the use of the Micro 84 Programmable Controller with the P190 Programmer.

Use the following documents in conjunction with this guide:

ML-M84A-USE	Micro 84 Programmable Controller User's Manual
PI-J375-002	J375 Modbus Adapter
ML-P190-USE	P190 User's Guide

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Micro 84	384	884
Modbus	484	P180
Modvue	584	P190
Modway	584M	

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SECTION 1

INTRODUCTION AND INSTALLATION

This manual provides instructions for using the Micro 84 Programmer/Tape Loader Tape (AS-TM84-001) with a P190 Programmer and a Micro 84 Programmable Controller using a J375 Modbus Adapter.

The P190 Programmer allows you to read existing ladder logic networks within a Micro 84 PC, to create new networks within the Micro 84 PC, and to edit networks on-line. The Programmer also provides "Coils Used", Reference Status/Contents, Search Display/ List, and standard logic screens.

The Tape Loader allows you to load the Micro 84 PC with data from a data tape which is inserted into the P190 Programmer. It records the PC's memory onto a blank tape in the P190. It also compares the memory in the Micro 84 PC to the memory on a P190 data tape and lists all the mismatches on the P190 screen.

The Programmer/Tape Loader tape also contains PC operations which allow you to clear the PC's memory all at once, or by sections, and to enable groups of coils or discrete inputs. A PRINT key allows you to print a copy of any screen displayed on the P190 Programmer.

Section 2 describes the P190 Programming Panel, Tape Drive, CRT screen and Memory Protect switch. Section 3 explains how the P190 and Micro 84 operate. Section 4 explains the Power-Up and Operation levels. Section 5 describes the Load PC Operations (PC OPS) functions that can be accessed from the PC Operations menu. Section 6 introduces the Ladder Logic used to program the Micro 84 PC and Section 7 tells you how to program the Micro 84 PC. Section 8 describes how to use the Tape Loader.

1.1 INSTALLATION

The components needed to start using the Micro 84 and the P190 Programmer are as follows:

1. P190 Programming Panel
2. AS-TM84-001 Programmer/Tape Loader Tape
3. AS-W806-0XX Cable to Attach the P190 to the Micro 84
4. J375 Modbus Adapter
5. MA-1805-000 Micro 84 peripheral cable that connects the J375 to Micro 84.
6. A Micro 84 System, consisting of (minimum):
 - a. Micro 84 Power Supply
 - b. Micro 84 Controller
 - c. I/O Modules
7. Optional P370 Programming Panel (not essential)

INTRODUCTION AND INSTALLATION

Figure 1-1 shows a diagram of the system we will refer to in this manual.

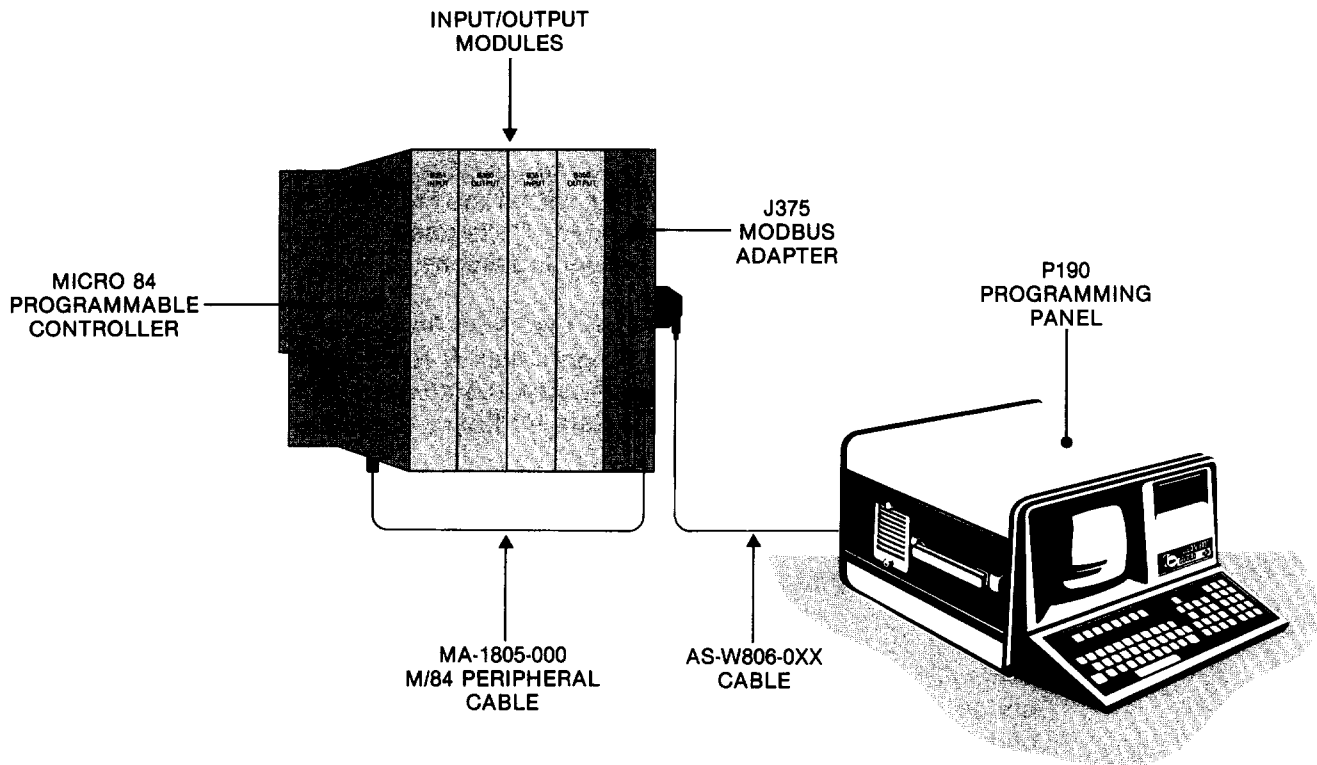


Figure 1-1. Diagram of P190/Micro 84 System

To install the Micro 84, refer to the Micro 84 Programmable Controller User's Manual, ML-M84A-USE. This includes system specifications, input/output modules, system wiring and component mounting. Refer to the J375 Modbus Adapter Installation And Operation Guide, PI-J375-002, to install the J375.

After the Micro 84 and the J375 are installed, connect the MA-1805-000 peripheral cable from the connector on the bottom of the Micro 84, to the connector on the front of the J375 Modbus Adapter, as shown in Figure 1-2.

To set up and install the P190 Programmer, refer to the P190 Programmer User's Guide, ML-P190-USE. When the P190 has been installed, connect the AS-W806-0XX cable from the side port on the J375 Modbus Adapter, to Port 1 on the back of the P190 Programmer. As soon as the cables are connected, communication between the P190 and the Micro 84 is complete.

INTRODUCTION AND INSTALLATION

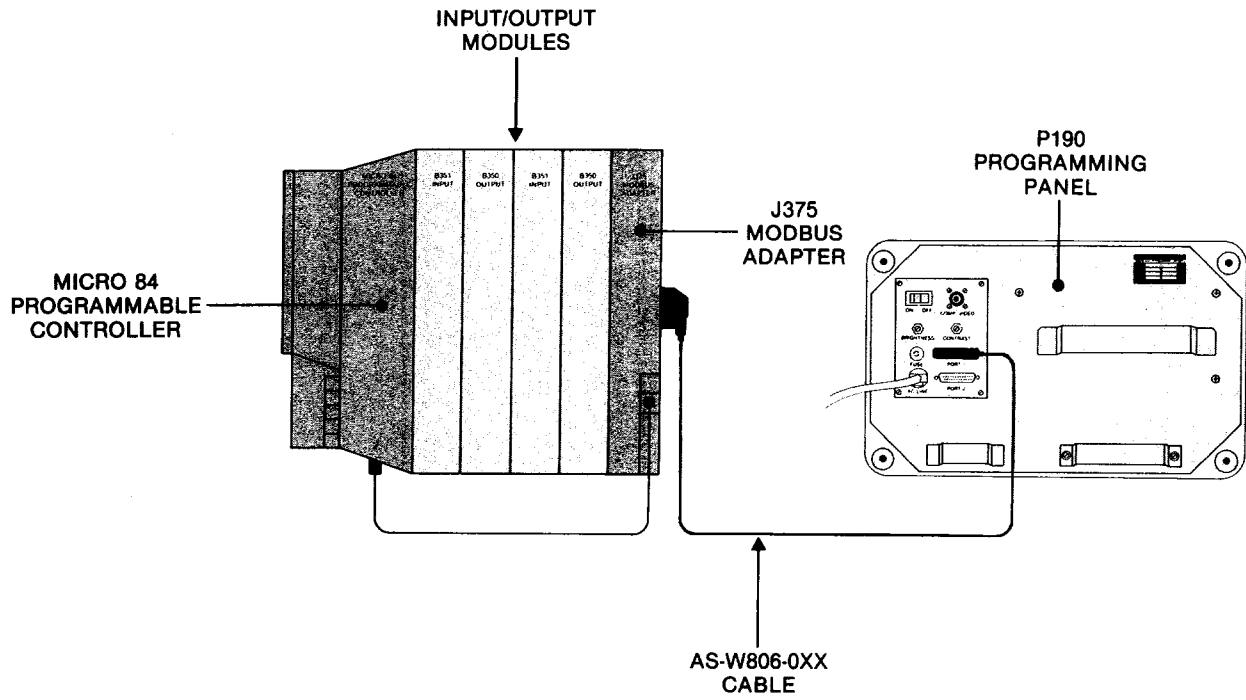


Figure 1-2. Micro 84 and J375 Modbus Adapter Showing Connectors