



INSTALLATION GUIDE

Maxiflex T2 CPU
M1240B

Table 3: Switch 1 Set-up (Serial Port)

Communications Protocol

Modbus Protocol (Slave device):

Transmission Mode: ASCII
Baud rate: 9600
Data bits: 7
Parity: none
Stop bits: 1
Address: see dipswitch

Serial Port Dipswitch setting

Switches 1-5: Modbus ID
Switches 6-8: Protocol
Switch 8 ON = Modbus default



Conet/s Protocol

Transmission Mode: RTU
Baud rate: 19200
Data bits: 8
Parity: none
Stop bits: 1
Address: see dipswitch

Switches 1-5: Conet ID
Switches 6-8: Protocol
Switch 7 ON = Conet/s default



The default operation is to use the serial port for standard communications allowing the user to get the CPU up and running quickly and easily both on the test bench and in the field. In this case the Serial Port Dipswitch beneath the male, sub-miniature DB-9 connector has the above default configurations. The serial port is also software configurable using the DITView utility or application program, but when switch 7 or 8 of the dipswitch is turned ON, then the dipswitch setting overrides the software configuration. *To restore the settings to the software configuration, simply set switch 7 or 8 of the dipswitch OFF.*

Table 4: Serial Port Pinout

The M1240B T2 CPU allows jumperless conversion between RS232 and RS485 communications. By simply following the appropriate pinout of the serial port connector below it is possible to connect the CPU in either mode without making any hardware or software changes to the CPU.

Pin number	Communication Standard	
	RS232	RS485
1	Do not connect	Rx Data + (In)
2	Rx Data (In)	Rx Data – (In)
3	Tx Data (Out)	Do not connect
4	Do not connect	Tx Data+ (Out)
5	Ground	Ground
6	Do not connect	Vcc
7	RTS (Out)	Do not connect
8	CTS (In)	Do not connect
9	Do not connect	Tx Data – (Out)

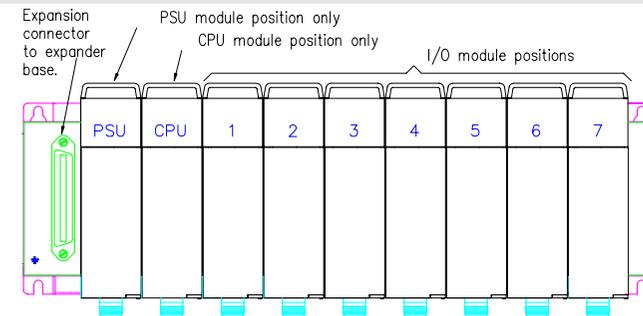
Introduction

This Installation Guide is intended to aid the fitment of the M1240B in the field. For operating details of this product, refer to the Users' Manual. Please read this Installation Guide first before installing this unit.

The M1240B CPU is a programmable CPU which controls the Maxiflex System. It is always fitted to second slot of a Maxiflex master base, next to the PSU module. See figure 1. It has one port which is a configurable serial port. This port has a DIP switch for address and parameter settings. See figure 2.

The CPU will be running either a user developed program using the EziForth programming language or is preloaded with an application from Omniflex. (RAM is battery backed so that application program variables are not lost on power down, the battery will be connected if you have an Omniflex application loaded already. If you are starting with a fresh CPU from stock the battery will need to be connected – see Installation procedure following.)

Figure 1 : Module Positions



Note: The exact position of the I/O module will depend on the system configuration.

Hardware Installation Procedure

1. Connect up internal battery (see Figure 3 Link 1).
2. If the CPU is going to be programmed use Programming port cable M1831 which is available as an accessory (Model No. M1831).
3. Plug the CPU into the required slot (as per Figure 1).

Figure 2: Front Panel Layout of M1240B

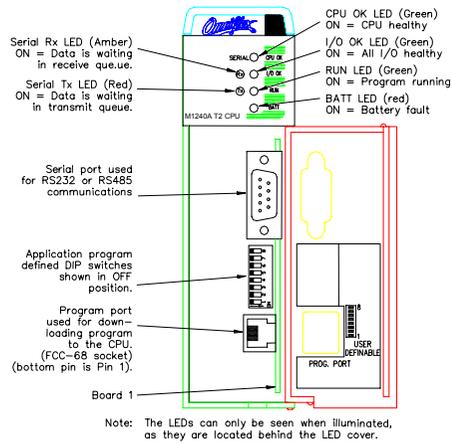


Table 1: T2 CPU Front Panel Diagnostics

LED Legend	LED Colour	Description
CPU OK	Green	ON - CPU is healthy OFF or Flashing – No power applied or CPU Faulty
I/O OK	Green	ON - I/O Module status healthy and I/O Manifest is configured. FLASHING – I/O Manifest is configured but disagrees with installed hardware. OFF – I/O Manifest is not configured.
RUN	Green	ON – user application software is running OFF – No user application software is running Flashing – Terminal interaction with CPU
BATT	RED	ON – Internal battery is LOW or not connected. OFF – Internal battery is good.
SERIAL Rx	YELLOW	ON – data is being received on serial port OFF – serial port receiver is idle
SERIAL Tx	RED	ON – serial data is being transmitted on serial port OFF – serial port transmitter is idle

Figure 3: Battery Backup Link

Before installing the CPU, the battery jumper must be inserted to connect the internal battery supply in the CPU. The CPU is usually shipped from the factory without the jumper connected. Use long nose pliers or tweezers to correctly place the jumper over the posts. The battery jumper can be found at the base of the Maxiflex Bus connector at the rear of the CPU.

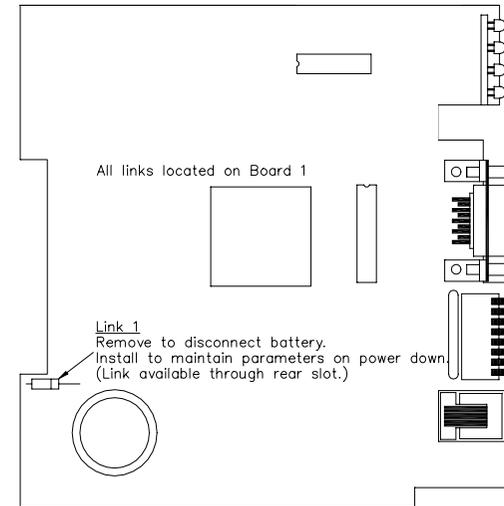


Table 2: Programming Port Pinout

Signal Name	DB-9	FCC-68 Pin No.
Rx Data from T2	2	4
Tx Data to T2	3	1
Ground Reference	5	2

All other pins are reserved and must not be connected.

NOTE: This information is only necessary if you are making up your own programming cable. If you are using a M1831 Programming port cable, simply connect the programming cable between the CPU and PC as per the connectors of the programming cable.