



**Manual  
Macro Tester  
Model 7805**

**Revision History**

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## **1. INTRODUCTION**

The STARLOG MACRO Tester (model 7805A) is a simple, low cost device designed to check the MACRO Data Logger's inputs.

## 2. OPERATION

The tester checks all input channels and output voltages for instrument power in the following manner:

### 2.1. ANALOG CHANNELS

A calibration signal is applied to all 16 analog channels. Analog channel readings should increment by approximately 200 each successive channel. For example: A0 = 200, A1 = 400, A2 = 600, etc.

A0	200
A1	400
A2	600
...	...

### 2.2. COUNTER CHANNELS

Each of the four counter channels is sent a pulse each logger scan.

### 2.3. SERIAL CHANNELS

The Clock Output is wired back into the Data Input of each serial channel (HSIO 0 and HSIO 1). When in Diagnostic Mode, pressing V will test the serial channels. The following responses are possible:

00	serial lines OK
01	serial 0 faulty
10	serial 1 faulty
11	serial 0 and 1 faulty

### 2.4. CONTROL OUTPUTS

The status of the Control Output is visible by means of an LED for each Output (OUT0 and OUT1). When in Diagnostic Mode, pressing V will test the control outputs. If operating correctly, the LEDs flash alternately. (Available using firmware version 33 and upwards.)

## **2.5. USER POWER SOURCES (UPS)**

Each UPS voltage (5V, 10V, -12V and +12V) has a corresponding LED. When the LED is on, so is the voltage. When the LED is off, the UPS is off.

In Diagnostic Mode, the P, O and F commands can be used to turn the User Power Supplies On or Off.