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The RBS Label Counter

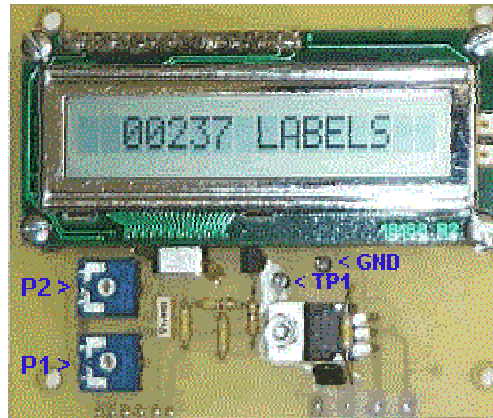


FIG 1

Specification:

Size	90 x 95 mm
Display	85 x 30 x 16 characters
Sensing speed	> 150,000 labels per hour
Display adjustment	Variable contrast
Input	Adjustable to suit full range of labels
Reset	External remote N/O contact
Supply	6 – 24 VDC

Adjustments and Setup:

Before carrying out this or any adjustments please ensure all electrical safety requirements are met.

- 1) Connect a multimeter set on a DC range to points GND and TP1
- 2) Turn unit ON
- 3) With label carrier paper (backing) obscuring the sensor adjust P1 for a reading of between 1.5 and 2.0 volts.
- 4) With label paper obscuring sensor, adjust P1 for as close to 3.5 volts as possible.
- 5) Adjust P2 for best display contrast.

Connections:

CN1	Pin 1	(-)ve GND
	Pin 2	(+)ve 6 – 24 VDC
	Pin 3	N/O reset switch
	Pin 4	N/O reset switch

CN2	Pin 1	Sensor transmitter ANODE
	Pin 2	Sensor transmitter CATHODE
	Pin 3	No connection
	Pin 4	No connection
	Pin 5	Sensor receiver ANODE
	Pin 6	Sensor receiver CATHODE

The RBS Label Counter uses an embedded microprocessor clocked at 8mHz. The sensor is input to the microprocessor using its non-maskable interrupt thus enabling the extremely high label count rate.

Although intended for use in the label industry, this counter can be adapted for many other applications.