



**SERIES 7999 LCD COUNTER
INSTALLATION & OPERATION INSTRUCTION MANUAL**
Manual Number

A DESCRIPTION. The 799986-302 is a six digit LCD, totalizing module for OEM applications.

B. SPECIFICATIONS:

Supply Voltage: 2.5 to 3.4VDC.

Current Consumption: 10µA maximum at 10KHz, 5µA typical.

Display: 6 digit, 6 mm character height, LCD.

Operating Temperature: -10°C to +60°C (14°F to 140°F).

Storage Temperature: -20°C to +70°C (-4°F to 158°F).

Signal Inputs:

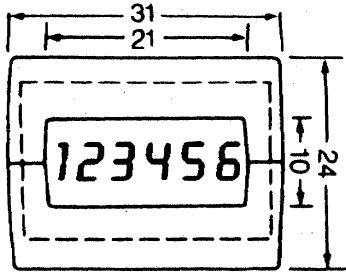
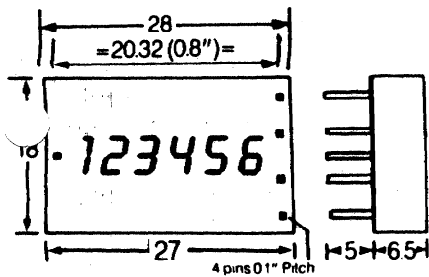
Count input: Open collector, TTL/CMOS compatible, Logic 0 < 0.7V, Logic 1 > 2.4V., negative edge switching.

Frequency response: 10KHz maximum. Minimum pulse length 50 µS.

Reset: Negative edge triggered, 0.7V threshold, minimum pulse length 15 µS.

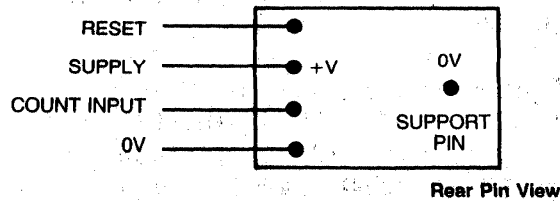
Weight: 7.5 grams.

C. DIMENSIONAL DRAWINGS: All dimensions in mm unless otherwise stated.

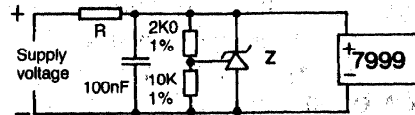


HOLE CUTOUT
SIZE 29.4x22

Pin Connections

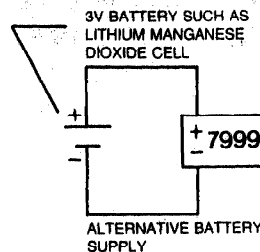


Operation with higher d.c. supply voltages



Z: Adjustable shunt regulator TL431CLP
All resistors +/- 5% 1/4 W unless otherwise stated

Supply Voltage	R Value
5 V d.c.	680 Ω
12 V d.c.	3K3 Ω
24 V d.c.	6K8 Ω
48 V d.c.	15K Ω



NOTE: USE NORMAL CMOS STATIC PROTECTION WHEN HANDLING THIS DEVICE.

D. CLAIMS AND WARRANTY.

1. DAMAGE CLAIMS.

a. Thoroughly examine the enclosure as soon as it is received. If damaged, write on the face of the freight bill a complete and detailed description of the damage. Have the carrier's agent sign the description.

NOTE: Insist that the carrier's agent verify the inspection and sign the description.

b. Immediately notify the delivering carrier of damage or loss. This notification may be given either in person or by telephone. Written confirmation must be mailed within 48 hours. Railroads and motor carriers are understandably reluctant to make adjustments for damaged merchandise unless inspected and reported promptly.

c. Risk or loss of, or damage to merchandise remains with the Buyer. It is the Buyer's responsibility to file a claim with the carrier involved.

d. Immediately advise your Veeder-root representative, distributor, or the factory so that we may assist you.

2. WARRANTY AND CONDITIONS.

a. **Warranty.** We warrant that this product shall be free from defects in material and workmanship for a period of one year from the date of shipment thereof or the product's total rated life, whichever first occurs. Within the warranty period we shall repair or replace such products which are returned to us with shipping charges prepaid and which are determined by us to be defective. This warranty will not apply to any product which has been subjected to misuse, negligence, or accident; or misapplied; or used in violation of product manuals, instructions, or warnings; or modified or repaired by unauthorized persons; or improperly installed.

b. **Inspection.** You shall inspect the product promptly after receipt and shall notify us at our Simsbury office, in writing, of any claims, including claims of breach of warranty, within thirty days after you discover or should have discovered the facts upon which the claim is based. Your failure to give written notice of a claim within the time period shall be deemed to be a waiver of such claim.

c. **Limitation of Remedy and Warranty.** The provisions of Paragraph 2.a. are our sole obligation and exclude all other remedies or warranties, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, whether or not purposes of specifications are described herein. We further disclaim any responsibility whatsoever to you or to any other person for injury to person or damage to or loss of any other person for injury to person or damage to or loss of property or value caused by any product which has been subjected to misuse, negligence, or accident; or misapplied; or used in violation of product manuals, instructions, or warnings; or modified or repaired by unauthorized persons; or improperly installed.

d. **Limitation of Damages.** Under no circumstances shall we be liable for any incidental, consequential or special damages, losses or expenses arising from this contract or its performance or in connection with the use of, or inability to use, our product for any purpose whatsoever.

e. **Limitation of Actions.** No action regardless of form arising out of this contract may be commenced more than one year after the cause of action has accrued, except an action for nonpayment.

f. **Collateral Promises.** There are no representations, warranties, or conditions express or implied, statutory or otherwise except those herein contained, and no agreements or waivers collateral hereto shall be binding on either party unless in writing and signed by you and accepted by us at our Simsbury office.

g. **Interpretation.** Rights and liabilities arising out of any contract with us shall be determined under the Uniform Commercial Code as enacted in Connecticut.

Warranty revised November 1, 1990.

VEEDER-ROOT 
Digital Products

125 POWDER FOREST DR., SIMSBURY, CT 06070-2003, U.S.A. (203) 651-2700

CONCEPT PHOTOGRAPHY AND DESIGN

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