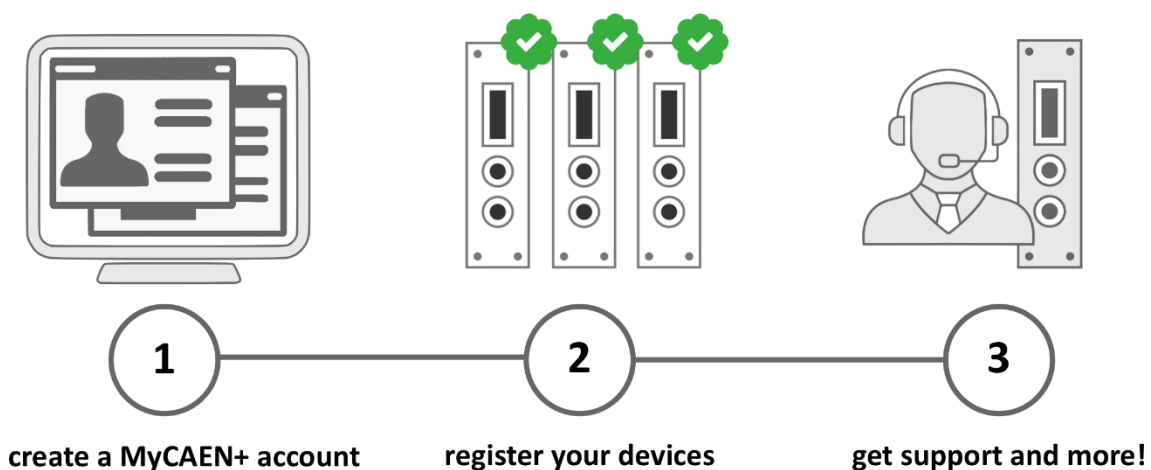




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Technical Information Manual

Revision n.1

31 March 2004

MOD. V972

DELAY UNIT

MANUAL REV.1

NPO:

00102/02:V972x.MUTx/01

CAEN will repair or replace any product within the guarantee period if the Guarantor declares that the product is defective due to workmanship or materials and has not been caused by mishandling, negligence on behalf of the User, accident or any abnormal conditions or operations.

CAEN declines all responsibility for damages or injuries caused by an improper use of the Modules due to negligence on behalf of the User. It is strongly recommended to read thoroughly the CAEN User's Manual before any kind of operation.



CAEN reserves the right to change partially or entirely the contents of this Manual at any time and without giving any notice.

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1. General description

1.1 Overview

The Model V972 is a passive delay unit housed in a single unit VME module; the module does not require any power supply since it is made up of calibrated coaxial cable stubs for high accuracy delay.

Delay ranges from 0 to 31.5 ns (0.5 ns steps). The module has a 2.6 ns offset, so the actual delay ranges from 2.6 ns to 34.1 ns. In order to add a delay, the relevant toggle switch must be pulled towards right.

The module is provided with two LEMO 00 connectors, which are bi-directional: each connector can be used either as input or as output. Input impedance is 50 Ohm. Six toggle switches allow the delay setting.

2. Technical specifications

2.1 Packaging

The Model V972 is housed in a one unit standard VME unit. The module is made up of calibrated coaxial cable stubs for high accuracy delay, and do not require power supply.

2.2 Front panel

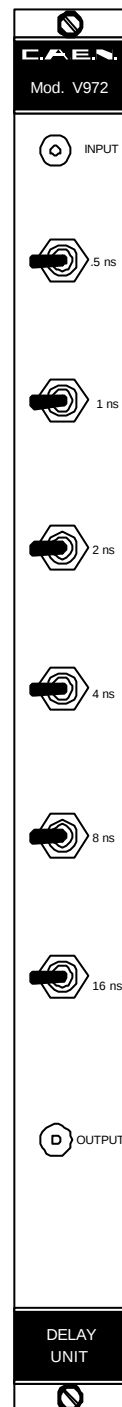


Fig. 2.1: Mod. V972 Front Panel

2.3 External components

INPUT/OUTPUT CONNECTORS: 2 LEMO 00 connectors

DELAY SWITCHES: 6 Toggle Switches

2.4 Technical specification table

Table 2.1: Mod. V972 Technical Features

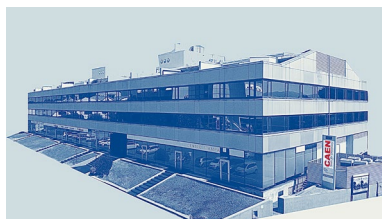
Packaging	One unit wide VME module
Delay	0 to 31.5 ns (+ 2.6 ns offset)
Resolution	0.5 ns
Input impedance	$50 \pm 2 \Omega$
Accuracy	± 100 ps (for delay steps 0.5 ns through 8 ns) ± 200 ps (for 16 ns delay steps)
Max attenuation ¹	= 2.5 dB
VSWR ²	< 1.15

¹ Measured with a 100 MHz sine wave input and delay set at 31.5 ns.

² Measured with a square wave input (0.8 ns rise/fall time).

**CAEN S.p.A.**

Via Vetraria 11
55049 - Viareggio
Italy
Phone +39 0584 388 398
Fax +39 0584 388 959
info@caen.it
www.caen.it

**CAEN GmbH**

Brunnenweg 9
64331 Weiterstadt
Germany
Tel. +49 (0)212 254 4077
Mobile +49 (0)151 16 548 484
info@caen-de.com
www.caen-de.com

CAEN Technologies, Inc.

1 Edgewater Street - Suite 101
Staten Island, NY 10305
USA
Phone: +1 (718) 981-0401
Fax: +1 (718) 556-9185
info@caentechnologies.com
www.caentechnologies.com

CAENspa INDIA Private Limited

B205, BLDG42, B Wing,
Azad Nagar Sangam CHS,
Mhada Layout, Azad Nagar, Andheri (W)
Mumbai, Mumbai City,
Maharashtra, India, 400053
info@caen-india.in
www.caen-india.in



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