CANADA

DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

E-57

OTTAWA August 21, 19 67

NOTICE OF APPROVAL

FOR

FERRANTI TYPE "D/R 482" MERCURY WETTED RELAY UNIT

Apparatus

Number of relays	1 to 4
Type of relay	Elliott Type EB, polarized octal socket, sealed
Contacts	S.P.D.T.
Coil Voltage	15 volts DC, Coil is polarized
Coil Resistance	9500 ohms
Speed of operation	5 per second
Contact rating *	2A 500 V. maximum
Printed Circuit Card	32/65119
Maximum line resistance	5000 ohms
Contacts feeding	Yellow card on Ferranti Type "CE" Summator or transmission signal line.

* not to exceed 100VA with contact protection

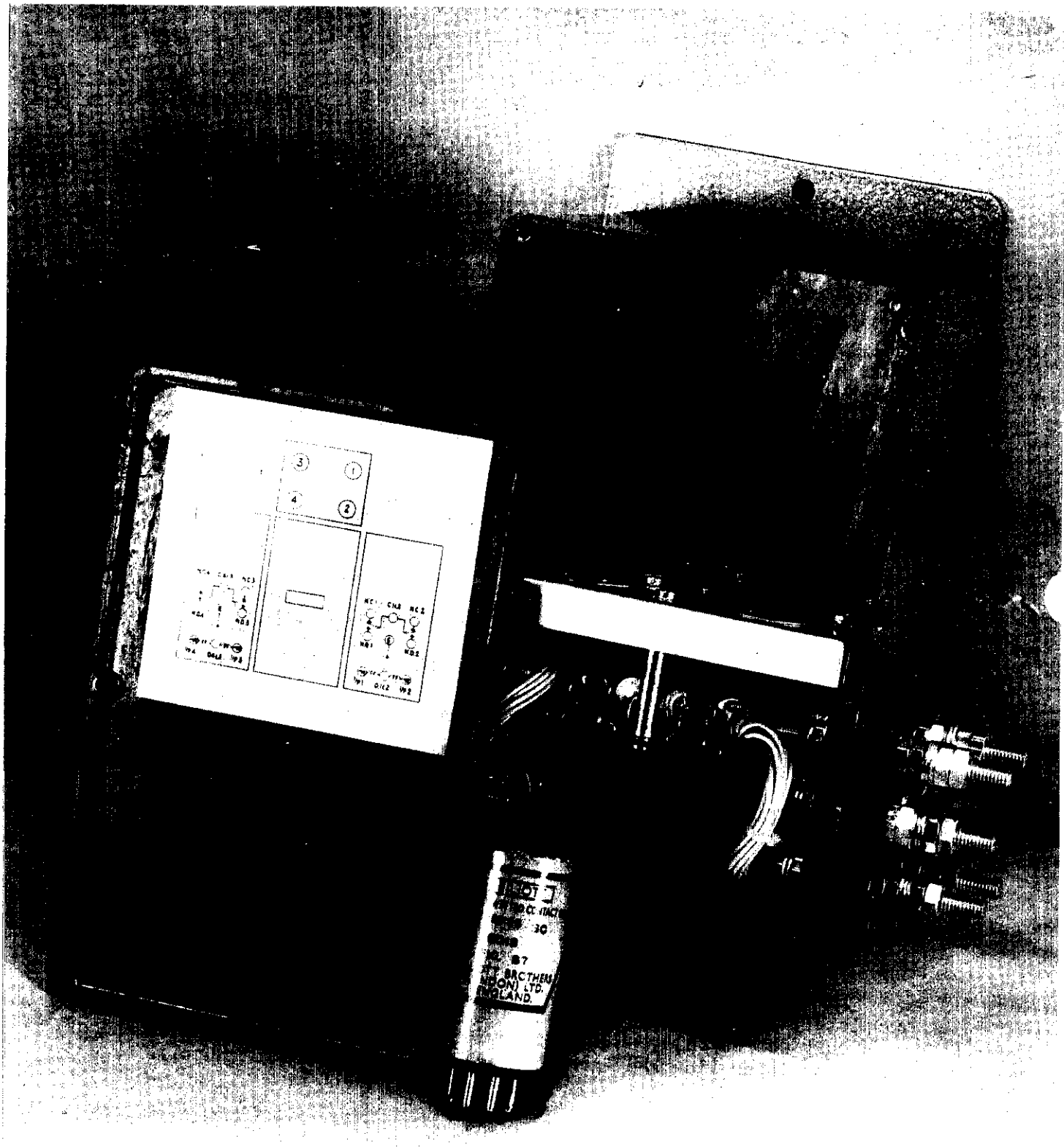
Description

The type D/R 482 Mercury wetted relay unit has provision for 1 to 4 octal socket mounted mercury relays. The coil of each relay is supplied from the output of an inductive pulse generator which received approval under circular "E-29" when used on types "TMF2", "TMF" and "TMFR".

This mercury wetted relay is intended to be placed at the receiving end of a noisy transmission line. The relay because of the slower acting armature, tends to ignore noise that might adversely affect the normal input card of the Summator.

In the event that it is desired to isolate the transmission line completely from the electronic devices in both transmitter and summator, a mercury wetted relay unit of this type may be used, one at each end of the transmitter line and each with its local 15V DC power supply.

FERRANTI TYPE "D/R 482" MERCURY WETTED RELAY UNIT



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The isolation thus provided prevents induced voltages in the transmission signal line from destroying the solid state devices used in transmitter and summator.

These mercury relays will operate only in a vertical position, and to insure that they are mounted this way in service, the housing will carry a tag to this effect.

The cover of the housing is held in place by six FH machine screws, but cross drilled filister head screws for sealing the cover are available upon request.

A diagram of connections is affixed to the inside of the cover.

Approval granted to: Ferranti-Packard Electric Limited,
St. Catharines, Ontario.

(for) Chief of Standards Laboratory,
Standards Branch.

W.J.S. Fraser

W.J.S. Fraser,
Chief, Electricity & Gas Division,
Standards Branch.

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