



Department of consumer and corporate affairs / Ministère de la consommation et des corporations



**STANDARDS BRANCH - DIRECTION DES NORMES**

**NOTICE OF APPROVAL  
AVIS D'APPROBATION**

**E-53-2**

OTTAWA November 26, 1974

STATREL TYPES "CCR-1M" AND "CCR-2M" CONTACT CONVERSION RELAY

This notice constitutes an addition to Approval Notice E-53, May 28, 1973 and E-53-1, May 6, 1974 which remain in effect.

Input	SPST (2-wire) dry contacts
Output	SPDT (3-wire) FORM "C" Mercury Wetted Reed Contacts
Input Pulse Rate	50 per second maximum
Minimum Pulse Duration	10 milliseconds
Maximum Input Resistance <sup>①</sup>	1000 ohms
Output Contact Rating	100 VA Max. 500 volts, AC or DC Max. 2 Amps. Max.
Number of Channels	CCR-1M - 1 CCR-2M - 2
Input/Output Pulse Ratio	1:1
Voltage applied to input contacts	12 volts D.C.
Temperature Range	-20°C to +50°C
Power Supply	115-120 volts 60Hz 3.5 VA

① Total Resistance of metallic transmission line.

Description

These contact conversion relays are solid state and, with the exception of the output mercury wetted reed relay, have no moving parts.

They were designed for use as an interposing relay between a meter having SPST 2-wire dry transmitting contacts and a receiver requiring a 3-wire input signal.

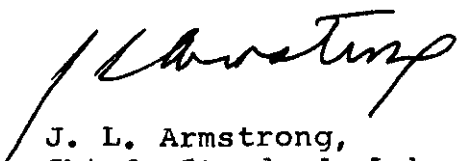
Type CCR-1M has single channel capability while Type CCR-2M has two identical independent channels.

The power supply of the Type CCR-2M is common to both channels so that the two channels must not have any additional electrical connection between them.

NOTE: The Type CCR-1M and CCR-2M Contact Conversion Relays must be mounted upright. The correct mounting position is indicated by an arrow and the word "UP" on the front face of the Relays.

Approval granted to:

Statrel Limited,  
Mississauga, Ontario



J. L. Armstrong,  
Chief, Standards Laboratory,



D. L. Smith,  
Chief, Electricity & Gas Division,  
Metrology and Laboratory Services.

Ref: G 1145-57/S688-171  
GL 1145-57/S688-171