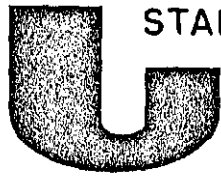




Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

G - 84

OTTAWA November 1, 1971

ROCKWELL ROMBACH REGISTER

Apparatus

Index Box Assembly:

- (1) Counter-type Register - 7 Digit display

<u>Meter Output Shaft Capacity, Cu. Ft. per rev.</u>	<u>Register Lowest Digit Capacity, Cu. Ft.</u>
10	1
100	10
1,000	100

The capacity of the register is changed by addition of appropriate number of zeros.

- (2) Pulsing Switch - magnetically actuated dry reed switch.

Remote, Electrical Counters - 6 digit display with lock

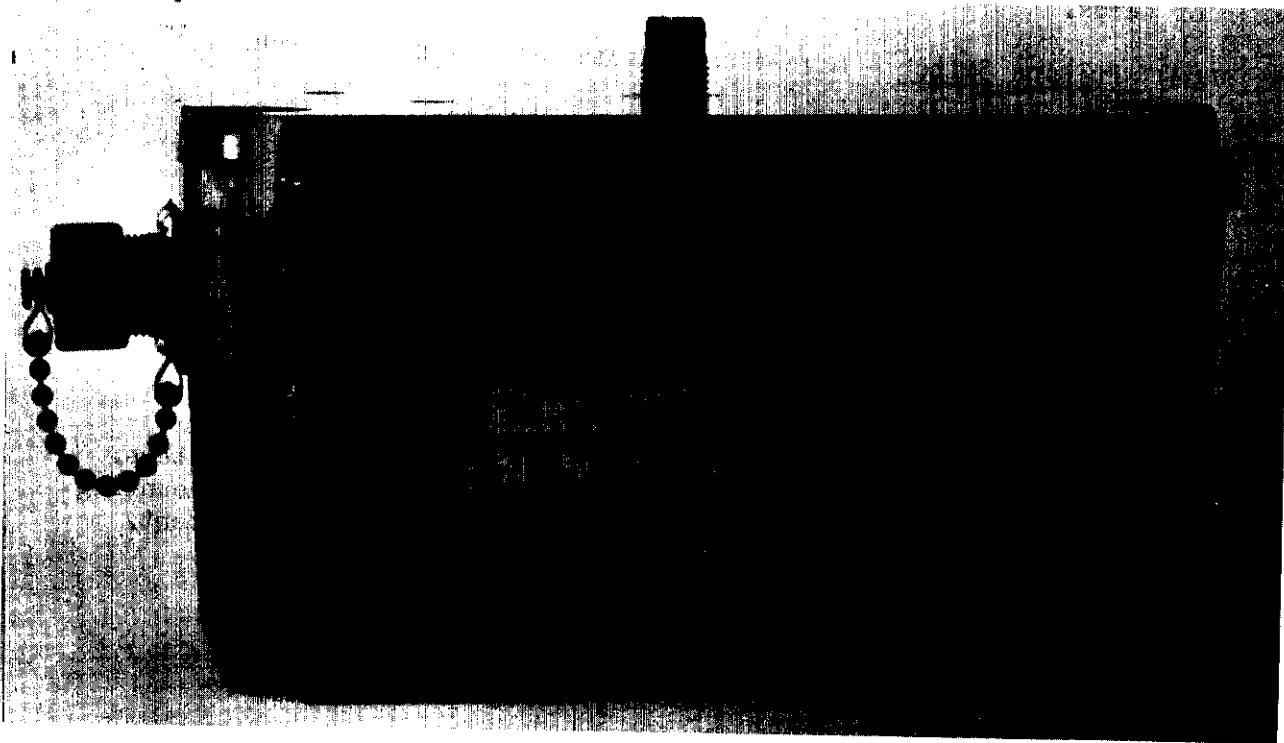
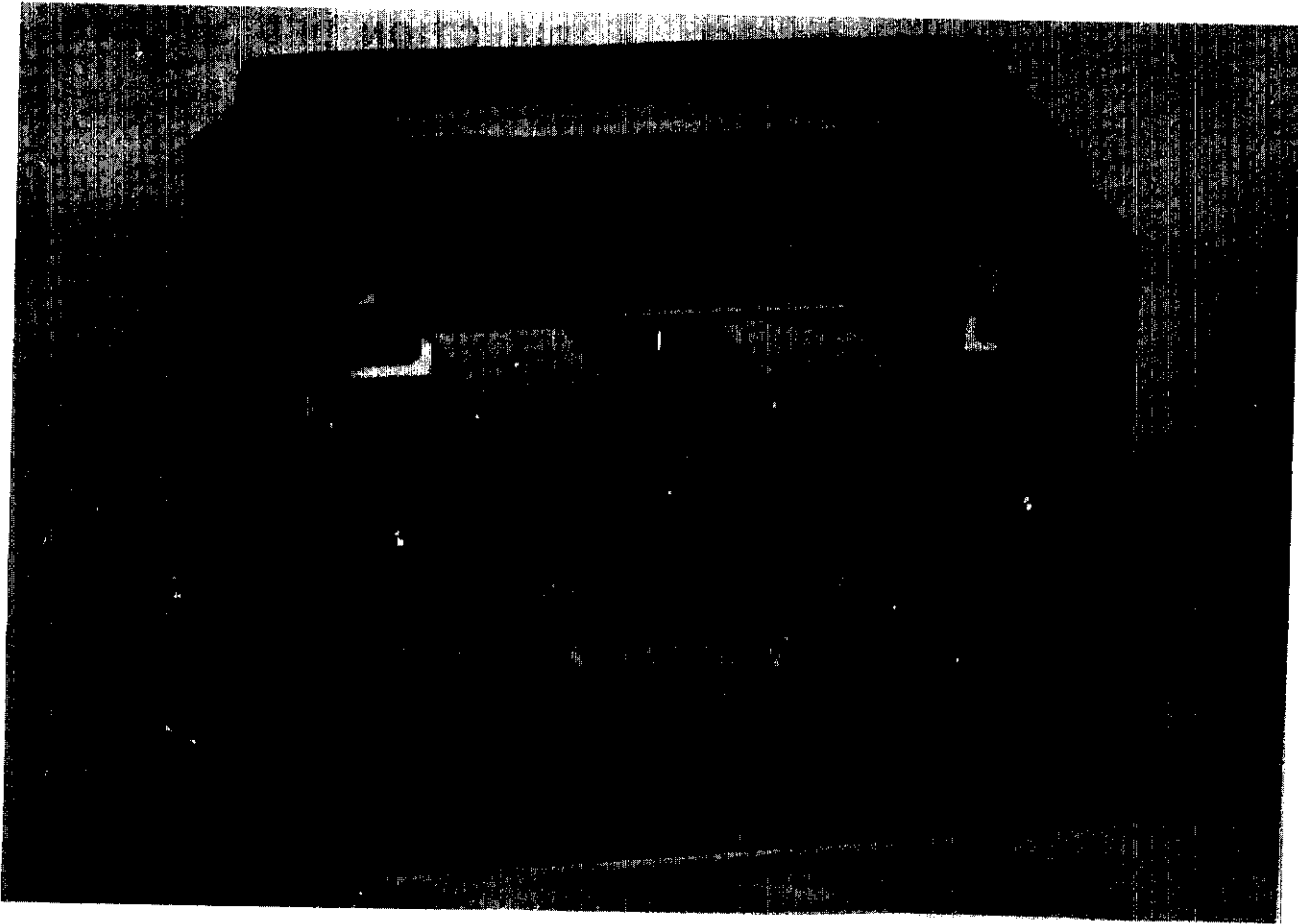
- (i) General Controls (ITT), cat. No. CE600BK602
(ii) Veeder - Root, Form No. C.B. 120506

Permissible loop impedance - 130 ohms \pm 10%
Power supply - 115 volts AC, 60 Hz

Description

The Rombach register is housed in a cast-aluminum box which can replace the conventional index on the larger capacity Rockwell gas meters. The top cover of this Rombach index box may serve as a base for the mounting and drive connections of approved Rockwell auxiliary measuring equipment.

ROCKWELL ROMBACH REGISTER



The Rombach register carries a plastic-type counter with conventional brass drive gearing. For tele-metering purposes, a magnetically operated pulsing switch is added. This switch is interconnected to a remote electrical counter, equipped with a reset key and a locking device, and a 115 volt (AC) supply by a suitable 2-wire line.

In operation, a disc mounted magnet rotates once for every revolution of the gas meter's index drive, actuating the pulse switch which in turn opens and closes the electrical circuit to advance, by one count, the remote counter.

The manufacturer supplies this Rombach register for special use with their approved, large capacity, industrial meters, however, it must be emphasized that when the line pressure is greater than the usual domestic distribution pressure, appropriate volume correcting devices are required. Consequently the volume registration of the Rombach register, either direct or through the remote counters, is not approved for billing purposes when the meter, equipped with such a register, measures gas at pressures greater than about seven ounces per square inch.

When the Rombach register is placed in service for billing applications the following requirements shall be met:

1. The cover of the index box shall be sealed to the meter.
2. When auxiliary instrumentation is fitted to the index cover, such equipment shall be also suitably included in the sealing of the index.
3. When the Index is used for tele-metering purposes, the following requirements apply:
 - (i) The Index counter dial-face shall be clearly and permanently marked to indicate the capacity in cubic feet per pulse.
 - (ii) The remote counter shall have the units of measurements, i.e. "cubic feet" marked above or below the read-out numerals and either a multiplier or an appropriate number of zeros shall follow the lowest reading numeral.

During verification of a gas meter with a Rombach register that is used for tele-metering, the correct transfer of meter registration to the remote counter shall be established.

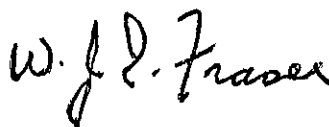
It shall be the responsibility of the utility to ensure that the meter registration is properly transferred to the remote counter at all times, and to prevent unauthorized persons access to the locking key of the remote counter.

Approval granted to:

Rockwell Manufacturing Company
of Canada Ltd.,
Guelph, Ontario.



for J.S.T. Swanson, P. Eng.,
Chief, Standards Laboratory,
Standards Branch.



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

Ref: SL-100-129C
SE-85-41