

TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

S-GA.204

OTTAWA February 17, 1961.

TYPE APPROVALNEGRETTI AND ZAMBRA TEMPERATURE
AND STATIC PRESSURE RECORDERS

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chap. 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: "Mersteel" Temperature Recorder and "Barnsbury" Pressure Recorder, manufactured by Negretti and Zambra Limited, London, England, and distributed in Canada by Negretti and Zambra (Canada) Limited.

Rating of Apparatus:

- (a) Temperature Range Any range between +20° and +150°F.
 Bulb Diameter $\frac{1}{4}$ " to $\frac{3}{4}$ "
 Capillary Tubing Length 20 feet maximum
- (b) Static Pressure Range:
- (i) Box type diaphragm 0-2" to 0-15" water gauge
 - (ii) Open stack diaphragm 0-0.5 to 0-18 p.s.i.
 - (iii) Single diaphragm 0-18 to 0-160 p.s.i.
 - (iv) Bourdon element 0-200 to 0-5000 p.s.i.

Application: Measurement in distribution service of heating gases for billing purposes.

Description: The die-cast aluminum rectangular case may include single- or dual-pen recorders for the measurement of pressure or temperature, or the combination of both. For temperature measurement a mercury in steel system is employed with a Bourdon element. The system is case compensated. A suitable linkage system connects the Bourdon element with a gravity-controlled recording pen.

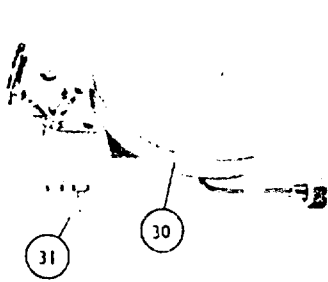
Four types of pressure elements may be used for various ranges of static pressure coverage. The Sangamo self-starting synchronous motor may be used as chart drive having rotational speeds either 24 hours or 7 days per revolution.

E. F. Power,
 Chief, Electricity & Gas Division,
 Standards Branch.

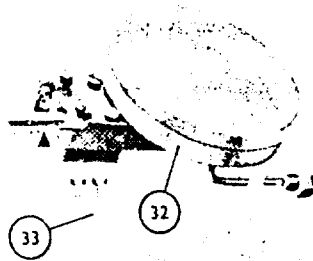
R. W. MacLean,
 Director,
 Standards Branch.

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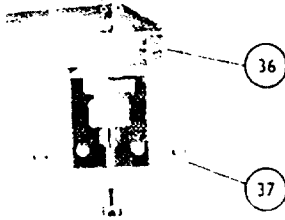
NEGRETTI AND ZAMBRA - VARIOUS DIAPHRAGM UNITS



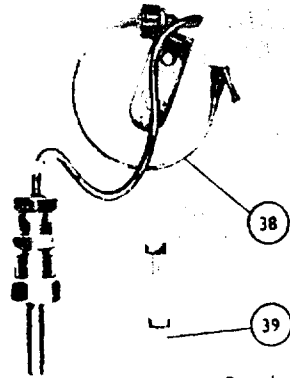
Box type " Diaphragm unit
for ranges from: 0/2 ins. to 0/15 ins. w.g.



Open Stack diaphragm
unit for ranges from:
0/0.5 to 0/18 P.S.I.



"Single diaphragm"
unit for ranges
from: 0/18 to 0/160 P.S.I.



Bourdon units
for ranges from:
0/200 to 0/5,000 P.S.I.

