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LEGAL METROLOGY BRANCH
Ottawa, Ontario
K1A 0C9

NOTICE OF APPROVAL
AVIS D'APPROBATION

E-169

Ottawa, October 3, 1980

CAMILLE BAUER "LINAX 4K4" UNIVERSAL STRIP CHART RECORDER

Basic Recorder Range (with plug-in jumper):	0-3 volts DC
Record:	Single or double pen, continuous line.
Chart: CBM805442; CBM4K4EX20 mm/h or CBM805442; CBM4K4EX20 MM	200 mm wide, 16 m long 33 days recording at 20 mm/h
Visible Diagram Length:	110 mm
Recording:	With Blue and Red Quick Drying Ink Stock Nos: Blue 668759, Red 668741
Ink Reserve:	Sufficient for at least six months' duty.
Measuring System:	Input Resistance $\geq$150 kΩ Adjustability of zero and full-scale value ±5%.
Reproducibility:	$\leq$ 0.2%
Response Time:	$\leq$ 5 seconds
Ranges with V.S. 1000 Range Boxes:	0-1 mA; 1-0-1 mA; 0-5 mA; 0-10 mA; 0-100 mV; 50-0-50 mV

Description

The front dimensions of the recorder case, which can be supplied with one or two measuring channels, are 288 mm wide by 192 mm high. The recorder chart drive accepts a 16 metre chart roll. The recording width of the chart is 200 mm. The compensation measuring system works with a capacitive pick-up system, eliminating wear and ensuring accuracy.

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Linax 4K4 Universal Recorders accept V.S. 1000 Range Boxes and can be fitted with optional alarm circuits (maximum two contacts per channel). By employing V.S. 1000 plug-in range boxes supplying the basic 0--3 volt DC signal needed by the recorder, the number of possible measuring ranges is increased.

The recording system consists of a capillary pen with a sapphire tip which is supplied continuously with ink from a plug-in container for each measuring system.

The chart transport is driven by a synchronous motor which, together with its gearing, forms the driving unit.

For replenishing the ink, the recording table (which includes an automatic take-up device) is easily removed. The recorder chassis is in the form of a plug-in with contact strip. When the recorder chassis is drawn out, the measuring circuits remain closed.

The *following modifications must be incorporated on all recorders* to be used for billing purposes in Canada:

1. A plate is to be fitted, to prevent unauthorized withdrawal of the chassis when in place in the case. This plate must also cover the recorder adjustment screws for zero and span and be held in place by two screws which are drilled for wirelocking and sealing.

2. The inclusion of the explosion-proof cover over the VS 1000 range plug-ins, with holes through the stand-offs for wire-locking to prevent removal of the cover.

3. Drilled screws holding the back covers to the case. These holes are to be used for wire-locking and sealing.

4. The recorder shall have the following details indelibly and distinctly marked on one or more nameplates attached in such a way so as to be clearly visible from the front, with the door closed:

    (a) Name or mark of manufacturer.

    (b) Type designation.

    (c) Serial number.

    (d) Voltage and frequency of power supply.

    (e) Designation of unit of measurement and multiplier if other than 1.

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The following information shall be legibly marked on the recorder and accessible from the front but need not be visible with the door closed:

(a) Chart identification number.

(b) Maximum external resistance.

(c) Span step response time.

(d) Range of measured quantity.

The recorders are manufactured by

Camille Bauer Messinstrumente AG
CH5610, Wohlen, Switzerland

and are distributed in Canada by

George M. Fraser Limited
11 Progress Avenue, Unit 18
Scarborough, Ontario
M1P 4S7

Approval granted to: George M. Fraser Limited
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