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NOTICE OF APPROVAL
AVIS D'APPROBATION

E - 166

Ottawa, September 26, 1979

CAMILLE BAUER SINEAX 56-1P1 AND 56-1Q1
SOLID STATE WATT AND VAR TRANSDUCERS

The following transducer types are herein approved.

Active Power Measurement

(1) 56-1P1-090, 2 Element, 3 phase, 3 wire

(2) 56-1P1-110, 3 Element, 3 phase, 4 wire

Reactive Power Measurement

(1) 56-1Q1-090, 2 Element, 3 phase, 3 wire

(2) 56-1Q1-110, 3 Element, 3 phase, 3 wire

Input Voltage	2 Element 120 V 3 Element $120V\sqrt{3}$
Current	0.5-5A
Frequency	60 Hz
Auxiliary Power Supply	120V AC 60Hz 4VA
Analog Output (Ka)	2 Element- 1040 watts/ma - 1040 vars/ma 3 Element- 1800 watts/ma - 1800 vars/ma
Rated Input	2 Element -1040..... + 1040 w or Var 3 Element -1800..... + 1800 w or Var
Burdens	Current .01 VA per current element Voltage 2 Element - 0.12 VA per El. 3 Element - 0.21 VA per El.
Power Factor	0 Lag - unity - 0 lead

Load Resistance (Analog Output) 10K OHMS Max.

Temperature Range -25°C to +55°C

The connection Diagram number which appears on the rating plate must agree with connection diagram attached to transducer.

Description

The transducer design is based on single phase power measurements. The basic module operates on the T.D.M. (Time-Division-Multiplication) principle and multiplies associated instantaneous values of current and voltage.

The output voltage of the T.D.M.'s is fed to the amplifier unit which converts it into a load-independent D.C. current.

The reactive transducers use the same basic circuits as contained in the active units but the voltage input connections are cross-phased internally to achieve the necessary voltage-current phase relationship.

Approval granted to:

Camille Bauer Measuring
Instruments Ltd.,
CH-5610 Wohlen, Switzerland.
Canadian Agent: George M. Fraser Lt
Scarborough, Ont.

D.L. Smith,
Chief,
Electricity and Gas Division
Legal Metrology Branch

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