

DATE: 11-08-1994

MODEL: 374

SERIAL NO.: 216602

REFERENCE: 3745AM5AX990

INPUT: 24 VDC

OUTPUT: 4-20 mA

SPR: 0-100 PSID

FULL SCALE PRESSURE RANGE:

% FSPR	STANDARD CALIBRATION		SPECIAL CALIBRATION	
	RUN 1	RUN 2	RUN 1	RUN 2
0	3.993			
20				
40				
60				
80				
100	20.018			
80				
60				
40				
20				
0	3.993			

INCREASING

DECREASING

**WIRING CONNECTIONS**

- + INPUT
- INPUT
- + OUTPUT
- OUTPUT

- PIN A +PWR./SIG.
- PIN B -PWR./SIG.
- PIN C CALIBRATE
- PIN D CALIBRATE
- PINS E+F NO CONN.

REMARKS: FIELD CALIBRATION PRESSURE= 79.84399 PSI D

**CALIBRATION CIRCUIT**  
An advantage of Viatran strain gage pressure sensors is that the gain or span of the readout system can be set without applying a known pressure input. The system setup can be accomplished by using a calibrate circuit as explained below.

**INTERNAL CIRCUIT**  
Most sensor models are supplied with an internal shunt calibrate circuit either as a standard or by special order. If this sensor has the circuit included, it will be noted below. Simply shorting the proper pins will produce the calibration output signal listed.

**EXTERNAL CIRCUIT**  
If the sensor does not include the calibration circuit, the same type calibration can be accomplished by connecting a resistor of the value indicated across the proper pins. This technique is accurate for cable lengths of up to 200 ft.

- Transducer - Internal Calibration  
Shorting pins C & D will produce a 16.788 mA calibration output signal.
- Transducer - External Calibration  
Connecting \_\_\_\_\_ ohms across pins \_\_\_\_\_ & \_\_\_\_\_ will produce a \_\_\_\_\_ calibration output signal.
- Transmitter\* - Internal Calibration Circuit and Switch  
Cal 1 represents \_\_\_\_\_ with a reading of \_\_\_\_\_  
Cal 2 represents \_\_\_\_\_ with a reading of \_\_\_\_\_

NOTE: All calibrations should be performed only after the transducer has been adjusted for zero at zero pressure.

## WARRANTY

Viatran Corporation warrants that its products shall be free from defective parts and workmanship for a period of twelve (12) months from date of original shipment, provided that Viatran's obligation hereunder shall be limited to correcting any defective workmanship and/or replacing any defective material F.O.B. destination.

A repair is warranted ninety (90) days from repair date under conditions of original warranty period unless superseded by original warranty period. If inspection by the Company of such product does not disclose any defect of workmanship or material, the Company's regular charges will apply. This warranty carries no liability, either expressed or implied, beyond our obligation to replace the unit which carries the warranty. This warranty is in lieu of all other warranties of merchantability or fitness. No allowance will be made for any expense incurred for correcting any defective workmanship and/or material without written consent by Viatran. Unit must be shipped to the Company, transportation prepaid, and return authorization number must be referenced on the package to assure acceptance at our shipping dock. Prices, specifications and decisions subject to change without notice.

The Company shall not be liable for and the Purchaser assumes and agrees to indemnify and save harmless the Company in respect to any loss or damage that may arise through the use by the Purchaser, or others, of any of the Company's products.

This warranty is void if the product is subjected to misuse, accident, neglect or improper application, installation or operation. This warranty is void if prior defects in materials or workmanship repairs are made by anyone except Viatran or its authorized service agency.

## REPAIR

Most Viatran sensors have been designed to be easily repaired and recalibrated if necessary. If a failure occurs, the sensor should be returned to the factory for inspection and testing. If the sensor failure is covered by our one year warranty policy, the unit will be repaired as necessary and reshipped without delay. Sensors usually not covered by warranty can be repaired within four to six weeks for approximately thirty to sixty per cent of the purchase price. Simple repairs can often be made for minimum charge. Units should be returned to the attention of the Repair Department, after obtaining a return authorization number from the customer service desk at (716) 773-1700.

### QUALITY ASSURANCE

**SCOTT BRINSER**  
S.P.  
Q.A.A. 11/08/94