

APPROVAL REPORT

**MODEL TFX8000
MINIATURE TWO WIRE P/I PRESSURE TRANSDUCER
FOR HAZARDOUS (CLASSIFIED) LOCATIONS**

Prepared For:

**Fairchild Industrial Products
3920 West Point Blvd.
Winston-Salem, NC 27103**

**J.I. 0W5A8.AE
(Class 3615)
June 23, 1992**



Factory Mutual Research

1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, Massachusetts 02062



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MINIATURE TWO WIRE P/I PRESSURE TRANSDUCER
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from

FAIRCHILD INDUSTRIAL PRODUCTS
3920 WEST POINT BLVD.
WINSTON-SALEM, NC 27103

I INTRODUCTION

1.1 Fairchild Industrial Products requested Factory Mutual Research Corporation (FMRC) Approval of their Model TFX8000 Miniature Two Wire P/I Pressure Transducer as explosionproof for Class I, Division 1, Groups B, C, and D and dust-ignitionproof for Class II, Division 1, Groups E, F, & G hazardous (classified) locations; indoor and outdoor (NEMA Type 4X).

1.2 The transducer will be listed in the Factory Mutual Research Corporation Approval Guide as follows:

HAZARDOUS (CLASSIFIED) ELECTRICAL EQUIPMENT

EXP/I/1/BCD; DI/II/1/EFG

Miniature Two Wire P/I Pressure Transducer. Model TFX8001a1-bc1de

- a = Channel 1 pneumatic input 3, 4, 5, 6 or 7.
- b = Channel 1 current output 1 or 2.
- c = Channel 2 pneumatic input 3, 4, 5, 6, 7 or 00.
- d = Channel 2 current output 1, 2 or 0.
- e = Options U or blank.

1.3 As described by this report, the construction of the subject equipment provides the degree of protection against electrical shock, fire and injury required for hazardous (classified) locations. Installation shall be in accordance with the manufacturer's instructions and the National Electrical Code.

1.4 The equipment described by this report was determined to comply with the applicable requirements of the following standards.

<u>TITLE</u>	<u>AUTHOR-NUMBER</u>	<u>DATE</u>
Explosionproof Electrical Equipment	FMRC-3615	March 1989
Electrical Equipment For Use In Hazardous Locations	FMRC-3600	March 1989
Electrical and Electronic Test, Measuring, and Process Control Equipment *	FMRC-3810	March 1989
Enclosures For Electrical Equipment	ANSI/NEMA-250	March 1987

* This standard is based in large part on the ANSI/ISA-S82 standard

1.5 The explosionproof enclosure used for the Model TFX8000 Transducer is identical to that of the Model TFXPD-6000 which is Factory Mutual Research Corporation Approved as described by FMRC Report J.I. 2R2A4.AE, dated August 16, 1990.

II DESCRIPTION

2.1 The Model TFX8000 transducer is a process control device which accepts a pressure from a pneumatic line and converts it to either a 4-20 mA or 10-50 mA current output.

2.2 The explosionproof transducer enclosure is constructed of cast aluminum and consists of a cover and base, in which the electronics are enclosed. The aluminum alloy contains less than 6% magnesium. The cover threads to the base with at least 10 full threads of engagement. The base has machined holes for input and output process and electrical connections. Two flame arrestors are installed in the base. A breather assembly threads into the base and utilizes two flame arrestors. Wiring provisions are furnished by a 1/2 inch NPT conduit connection. The enclosure cover is equipped with an o-ring seal to prevent the ingress of dust and water. The transducer is rated for installation in ambient temperatures up to 66°C.

2.3 For additional information, see the attached sales literature.

III MARKINGS

The manufacturer's metallic label is permanently attached to the instrument housing. Label drawing EC18542 is included as an attachment to this report.

IV EXAMINATION AND TEST

4.1 Because the electronics housing used to house the subject device has been previously tested and approved as described in paragraph 1.5, no additional ignition, dust, hydrostatic, process pressure or NEMA testing was considered necessary.

4.2 **PROTECTION FROM ELECTRICAL SHOCK** - The following tests verify the protection afforded by all the subject transducer against electrical shock.

4.3.1 **Dielectric Tests** - The insulation of all primary circuits on the transducer was tested by applying a test voltage of 707 Vdc. During the test the potential held for one minute without dielectric breakdown of the insulation occurring. This is satisfactory.

4.3.2 **Protective Grounding** - The transducers are supplied with an internal enclosure grounding screw which is properly marked. It has been verified by measurement that all accessible conductive components of the transducer that could be otherwise become energized in the event of a fault are bonded to this point with a resistance of less than 0.1 ohm. This is satisfactory.

4.3.3 **Protection from Accessible Live Parts** - There are no live parts accessible on the transducer when tested with the IEC rigid and articulated finger probes. This is satisfactory.

V MANUFACTURER'S RESPONSIBILITIES

5.1 The manufacturer shall advise Factory Mutual Research Corporation of all proposed changes to the documentation file in Section VIII.

5.2 On 100% of production, the transducers shall be dielectric tested. The power input leads and associated circuitry shall withstand for one minute, with no insulation breakdown, the application of 707 Vdc or 500 Vac, 60 Hz with respect to the protective ground lead. Alternatively, test potentials 20% higher may be applied for at least one second.

WARNING: The dielectric test required may present a hazard of injury to personnel and/or property and should only be performed under controlled conditions, and by persons knowledgeable of the potential hazards of such testing to minimize the likelihood of shock and/or fire.

5.3 On 100% of production, the manufacturer shall conduct routine continuity inspection of the protective grounding system.

VI FACILITIES AND PROCEDURES AUDIT

The manufacturer's design and manufacturing facilities in Winston-Salem, North Carolina are subject to follow-up audit inspections by Factory Mutual Research Corporation. The facilities and quality control procedures in place have been found to be satisfactory to manufacture the Model TFX8000 Pressure Transducers identical to those tested and Approved.

VII CONCLUSION

The Model TFX8000 Miniature Two Wire P/I Pressure Transducer, as described in this report, meets Factory Mutual Research Corporation Approval requirements. Approval is effective when the Approval Agreement is signed and received by Factory Mutual Research Corporation.

VIII DOCUMENTATION FILE

The following documentation is applicable to this equipment and is on file at Factory Mutual Research Corporation. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from Factory Mutual Research Corporation. The Approved Product - Revision Report, FMRC Form 797, shall be forwarded to Factory Mutual Research Corporation as notice of proposed changes.

<u>Document No.</u>	<u>Description</u>	<u>Rev.</u>
CS 5000-T8000	PRODUCT LITERATURE	10/91
EA-1174	1/4 NPT PLUG	J
EA-13784	FLAME ARRESTOR	B
EB-130	O-RING SPEC	E
EB-16609	VENT ASSY	C
EB-16964	PLUG	A
EB-16965	BODY ASSY	G
EB-18057	FLAME ARRESTOR	B
EB-18147	FITTING	B
EB-18148	BREATHER ASSY	C
EC-16960	BONNET MACHINING	D
EC-16961	BONNET CASTING	C
EC-16962	BODY CASTING	B
EC-18033	PARTS LIST	F
EC-18542	NAMEPLATE	A
ED-16963	BODY MACHINING	J
ED-18541	TX8000 FINAL ASSEMBLY	-

EXAMINATION AND TESTING BY: D. C. Anderson

ORIGINAL DATA: Test notebook No. 92-224

ATTACHMENTS: Nameplate - EC-18542 (Rev. A)
Product Literature - CS 5000-T8000 (10/91)

REPORT BY:

David C. Anderson
David C. Anderson
Electrical Engineer

REPORT REVIEWED BY:

R. P. Lutfy
Roger P. Lutfy
Electrical Section Manager

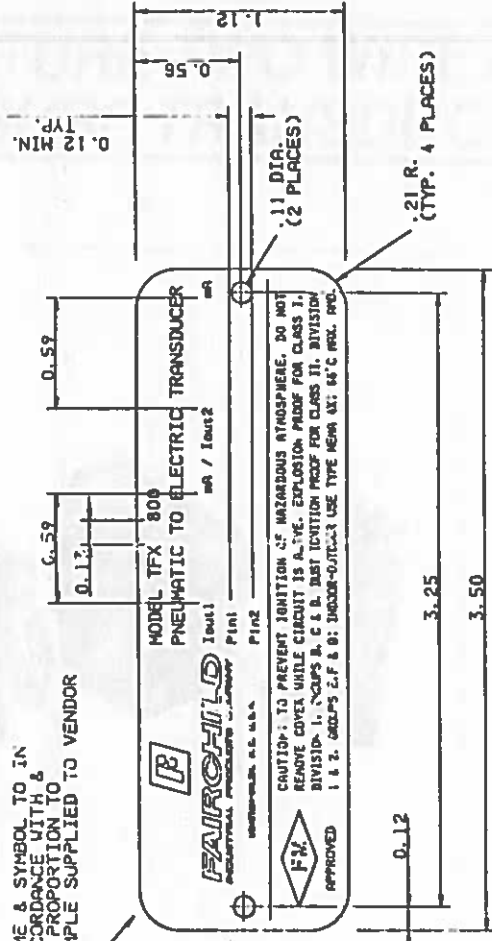
TABLE #1. STAMPING INFORMATION

MODEL #	Pin1	Pin2	Inlet	Outlet
TFX_8001-311311	0-5 PSIG	0-5 PSIG	4-20mA	4-20mA
TFX_8001-411411	0-15 PSIG	1-15 PSIG		
TFX_8001-511511	0-30 PSIG	0-30 PSIG		
TFX_8001-611611	0-50 PSIG	0-50 PSIG		
TFX_8001-711711	0-100 PSIG	0-100 PSIG	4-20mA	N/A
TFX_8001-311000	0-5 PSIG	N/A		
TFX_8001-411000	0-15 PSIG	N/A		
TFX_8001-511000	0-30 PSIG	N/A		
TFX_8001-611000	0-50 PSIG	N/A		
TFX_8001-711000	0-100 PSIG	N/A	4-20mA	N/A
TFX_8001-312312	0-5 PSIG	0-5 PSIG	10-50mA	10-50mA
TFX_8001-412412	0-15 PSIG	1-15 PSIG		
TFX_8001-512512	0-30 PSIG	0-30 PSIG		
TFX_8001-612612	0-50 PSIG	0-50 PSIG		
TFX_8001-712712	0-100 PSIG	0-100 PSIG	10-50mA	N/A
TFX_8001-312000	0-5 PSIG	N/A		
TFX_8001-412000	0-15 PSIG	N/A		
TFX_8001-512000	0-30 PSIG	N/A		
TFX_8001-612000	0-50 PSIG	N/A		
TFX_8001-712000	0-100 PSIG	N/A	4-20mA	N/A

TO BE FILLED IN AS REQ'D

1. NAMEPLATE TO BE ETCHED & FILLED. LETTERS BLACK ON ALUM. BACKGROUND. β TO BE ALUM. & RHOMBUS AROUND β TO BE RED (COLOR PMS185)
2. SAMPLE NAMEPLATE TO BE APPROVED BY ENGINEERING BEFORE FINAL ACCEPTANCE.
3. THIS NAMEPLATE NOT TO BE USED WITHOUT WRITTEN APPROVAL FROM FACTORY MUTUAL & A RELEASE FROM ENGINEERING. REF. EC-18543 INTERN LABEL MUST BE USED PRIOR TO FM APPROVAL.
4. MANUFACTURING TO USE 3/32" HIGH STAMP TO FILL IN BLANKS

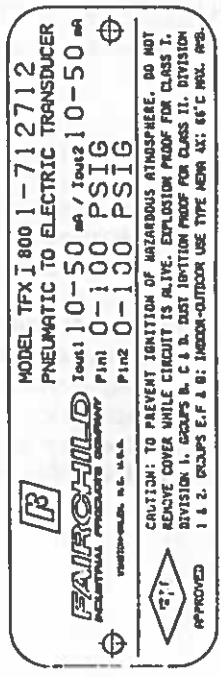
NAME & SYMBOL TO IN ACCORDANCE WITH & IN PROPORTION TO SAMPLE SUPPLIED TO VENDOR



EC-18542-1 SHOWN

EC-18542

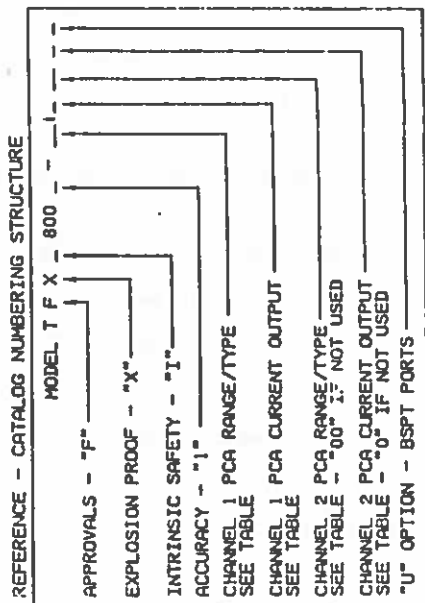
A



EC-18542-1 WITH STAMPING SHOWN

AS REQUIRED FOR MODEL TFXI8001-712712. FAIRCHILD MANUFACTURING TO REFER TO TABLE #1 FOR STAMPING INFORMATION AS REQUIRED BY CATALOG # ON SALES ORDER

THIS IS A CONTROLLED DRAWING. NO CHANGES MAY BE RELEASED UNTIL REVIEWED BY THE REGULATORY REQUIREMENT ENGINEER.

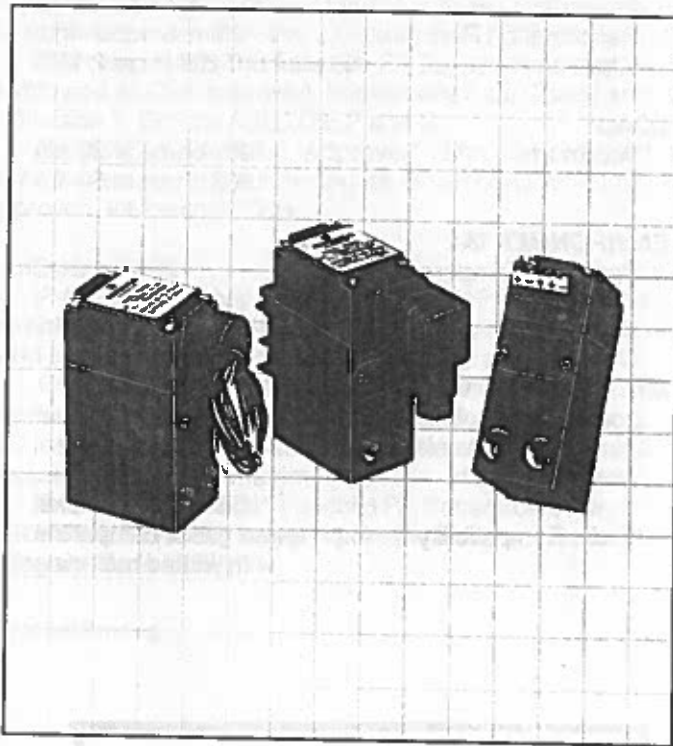


USED ON	DR. 2	17/2/71	MATERIAL	.020 ALUM. ALLOY
DATE	1/21			SHEET 5052-0
BY				
CHKD				
APPD				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS ARE IN INCHES				
ALL TOLERANCES ARE				
DECIMALS FRACTIONS ANGLES				
.XX .01 1/64 1/2				
.XXX .005 1/32 1/2				
REVISION SUBJECT Nos. 125, 1041				
			3703 WEST POINT BLVD. INDUSTRIAL PRODUCTS COMPANY, P.O. BOX 100 WASHINGTON, N.C.	
SCALE 1" = 1"			KEY EC-18542	
NAMEPLATE TFX8000				

FAIRCHILD

MINIATURE TWO WIRE P/I PRESSURE TRANSDUCERS

MODEL T8000
SERIES



APPLICATIONS

These inexpensive high quality rapid response controls are designed for precision applications and provide maximum versatility in installations requiring operation of electrical devices from an existing pneumatic control line, including feedback from an I/P source to close a control loop, acquisition of data from pneumatic controls, and remote monitoring of processes.

Modular construction permits use of one basic unit in all applications or use in an explosion proof housing.

Compact size and convenient location of adjustments and ports increases accessibility of controls in small spaces and simplifies piping layout to the unit.

MAJOR FEATURES

- # May be wall, panel, pipe, rack or DIN rail mounted
- # PC Board burned in prior to assembly
- # NEMA 4X* case (TA and explosion proof)*
- # RFI/EMI protected
- # Compact Size; one or two units per housing
- # Five Input Ranges Available
- # 4-20 or 10-50 mA Outputs
- # Conduit, Terminal Strip or DIN connections
- # External Zero and Span Adjustments on same plane
- # Input Ports on both ends
- # Field Reversible

*Approval Pending

BENEFITS

- # Easily suited to most installations
- # Built-in consistent reliability
- # Corrosion protected in windblown dust and direct water sprays
- # Reduced susceptibility to electromagnetic and radio interference
- # Permits high density mounting — saves space
- # Covers all standard process inputs
- # Covers standard loop outputs
- # Allows easy wiring to units
- # Increases accessibility in close spaces
- # Simplifies pneumatic piping
- # Provides output directly or inversely proportional to input signal

SPECIFICATIONS

PNEUMATIC INPUT

Range	
psig	(kPa)
0-5	0-35
0-15	0-105
0-30	0-210
0-60	0-420
0-120	0-840

CURRENT OUTPUT

4-20 mA or 10-50 mA

SUPPLY VOLTAGE

12-50 VDC for 4-20 mA range
12-30 VDC for 10-50 mA range

INDEPENDENT LINEARITY (Accuracy)

+0.1% Full Scale

HYSTERESIS AND REPEATABILITY

Less than 0.1% Full Scale

RESOLUTION

Infinite (less than 0.05% Full Scale)

STABILITY

Compensated Range 0°-50 °C
Temperature Compensation
Zero +/- 0.5% FS(0°-50° C)
Span +/- 0.5% FS(0°-50° C)
Drift less than 0.25% Full Scale/30 days

ELECTRICAL

Calibration

Zero: -12.5 to 125% FS:

Span: -25 to 50% FS:

Response Time: Output less than
10 m-seconds from 10-90% input

Damping: 7 secs 10%-90% FS Jumper Selectable

Reverse Polarity protected

Output Ripple less than 5mV peak to peak

MECHANICAL

Damage Pressure 3 times rated input or
200 psi, whichever is less
20 psi for 5 psi range
Recalibration Pressure 2 times rated input
Vibration No effect 10-200 Hz at 2-10 G

LOAD

Maximum 1900 ohms at 20 mA
360 ohms at 50 mA

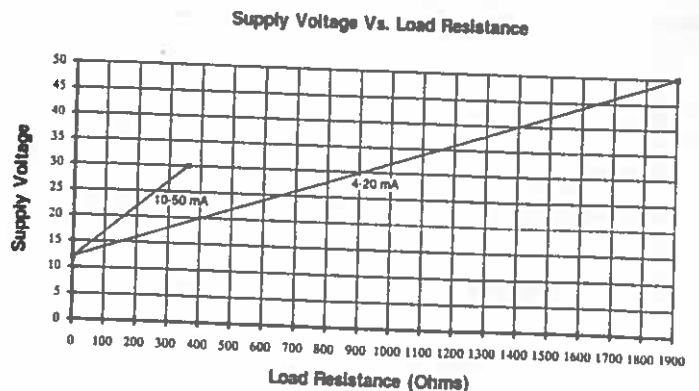
ENVIRONMENTAL

Operating Temperature -25° to 80° C
(13° to 176° F)
Humidity 95% Relative Humidity

MATERIALS OF CONSTRUCTION

Body and Housing Aluminum
Trim Stainless Steel, Brass, Zinc Plated Steel
Wetted Materials Aluminum, Glass, Ceramic,
Silicon RTV, Nickel
Media Compatibility . . . Liquids and gases compatible
with wetted materials

LOAD CURVES



SPECIFICATIONS

Hazardous Area Classification

Intrinsically Safe

Factory Mutual Approval:* The Fairchild P/I Transducers may be purchased as Factory Mutual Approved, Intrinsically Safe, Class I and II, Division 1, Groups A,B,C,D,E,F and G.

CSA Approval:* The Fairchild P/I Transducers may be purchased as CSA approved, Intrinsically Safe Class I and II, Division 1, Groups A,B,C,D,E,F and G.

BASEEFA/CENELEC Approval:* The Fairchild P/I Transducers may be purchased as BASEEFA/CENELEC approved, Intrinsically Safe.

Explosion Proof

Factory Mutual Approval:* The Fairchild P/I Transducers may be purchased as FM approved, Explosion Proof Class I and II, Division 1, Groups B,C,D,E,F and G and NEMA 4X.

CSA Approval:* The Fairchild P/I Transducers may be purchased as CSA explosion proof Class I, Division 1, Groups B,C and D and Class II, Division 1, Groups E,F and G and enclosure 4.

BASEEFA Approval:* Fairchild P/I Transducers may be purchased as BASEEFA approved explosion proof operation category (Exds II CT6).

*Approval Pending



OUTLINE DIMENSIONS

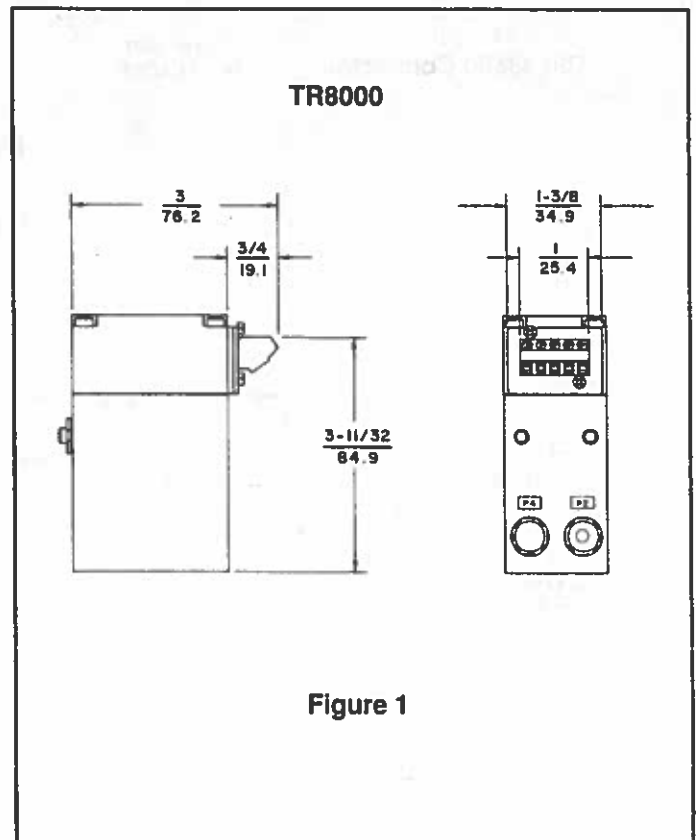
Outline Dimensions

The Basic Model T8000 is a two section unit consisting of the cover on which is mounted the various output connectors for obtaining the loop current output, and the bottom section which houses the printed circuit board(s).

Zero and Span controls are located under the plate in the bottom section which allows access to these controls.

There are three versions of the cover: (TD) DIN 43650 connector, (TA) conduit connector with wires brought outside the unit and (TT) terminal strip connector. The bracket furnished with the unit can be mounted in a vertical or horizontal position. A pipe clamp for 1-1/2" pipe is also available. An optional DIN rail mounting kit Part No. EA-16893 is available (see mounting dimensions).

NOTE: The TR-8000 units are used in the rack mounted kits. Standard mounting hardware cannot be used with this unit.



SPECIFICATIONS

OUTLINE DIMENSIONS

Hazardous Area Classification

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CSA Approval:* The Fairchild P/I Transducers may be purchased as CSA approved, Intrinsically Safe Class I and II, Division 1, Groups A,B,C,D,E,F and G.

BASEEFA/CENELEC Approval:* The Fairchild P/I Transducers may be purchased as BASEEFA/CENELEC approved, Intrinsically Safe.

Explosion Proof

Factory Mutual Approval:* The Fairchild P/I Transducers may be purchased as FM approved, Explosion Proof Class I and II, Division 1, Groups B,C,D,E,F and G and NEMA 4X.

CSA Approval:* The Fairchild P/I Transducers may be purchased as CSA explosion proof Class I, Division 1, Groups B,C and D and Class II, Division 1, Groups E,F and G and enclosure 4.

BASEEFA Approval:* Fairchild P/I Transducers may be purchased as BASEEFA approved explosion proof operation category (Exds II CT6).

*Approval Pending



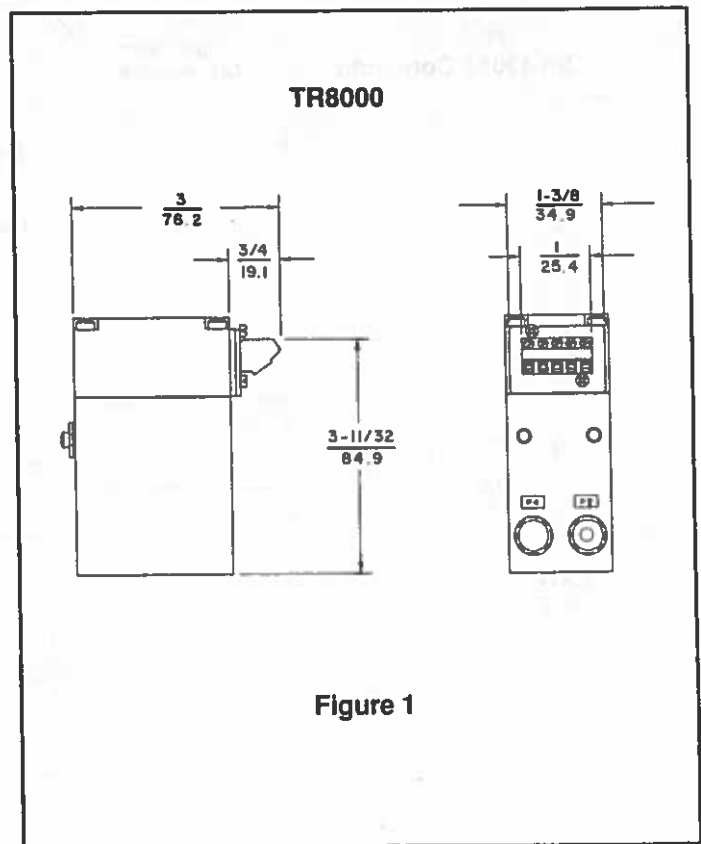
Outline Dimensions

The Basic Model T8000 is a two section unit consisting of the cover on which is mounted the various output connectors for obtaining the loop current output, and the bottom section which houses the printed circuit board(s).

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NOTE: The TR-8000 units are used in the rack mounted kits. Standard mounting hardware cannot be used with this unit.



OUTLINE DIMENSIONS

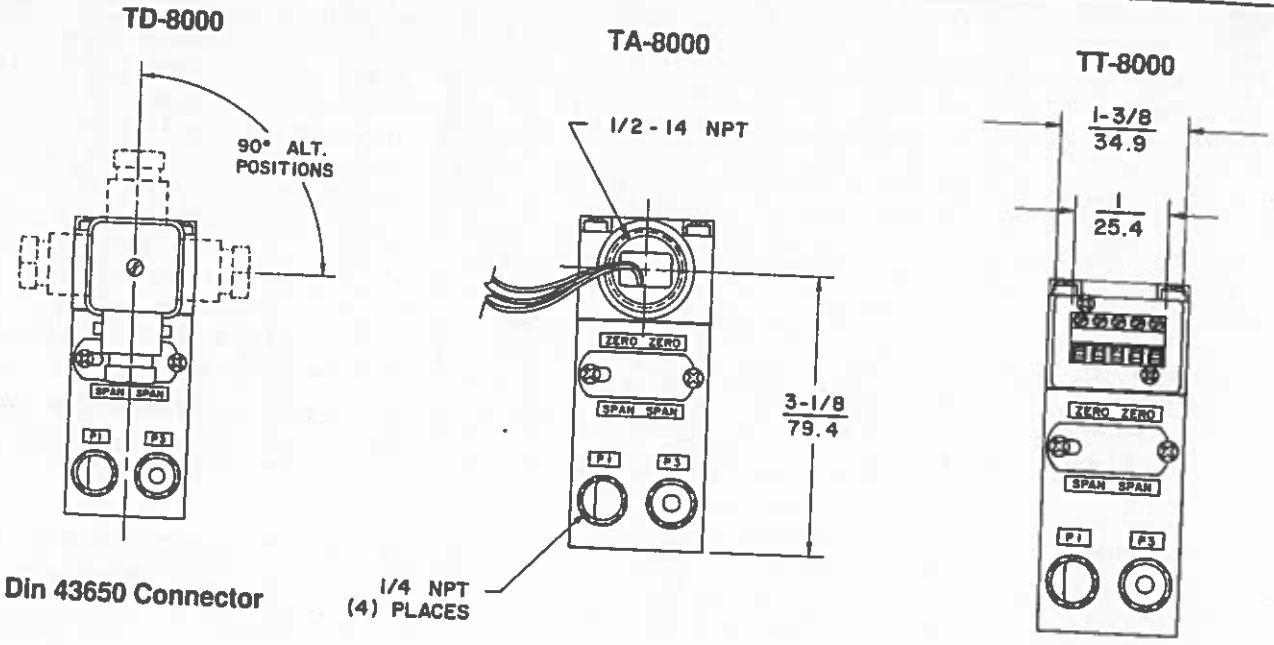


Figure 2

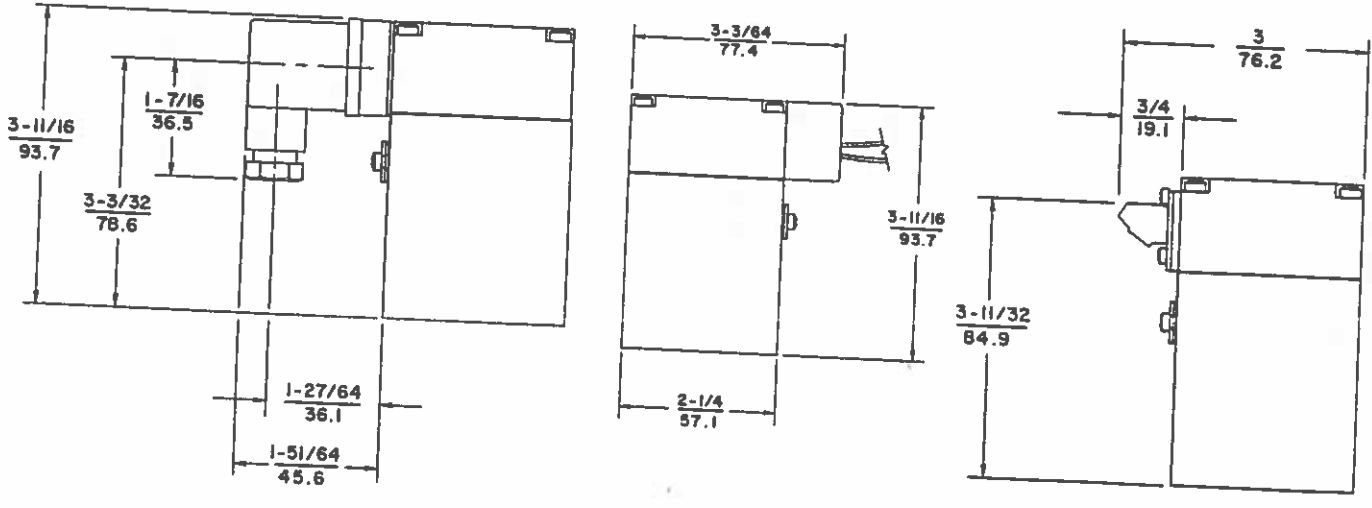


Figure 3

OUTLINE DIMENSIONS

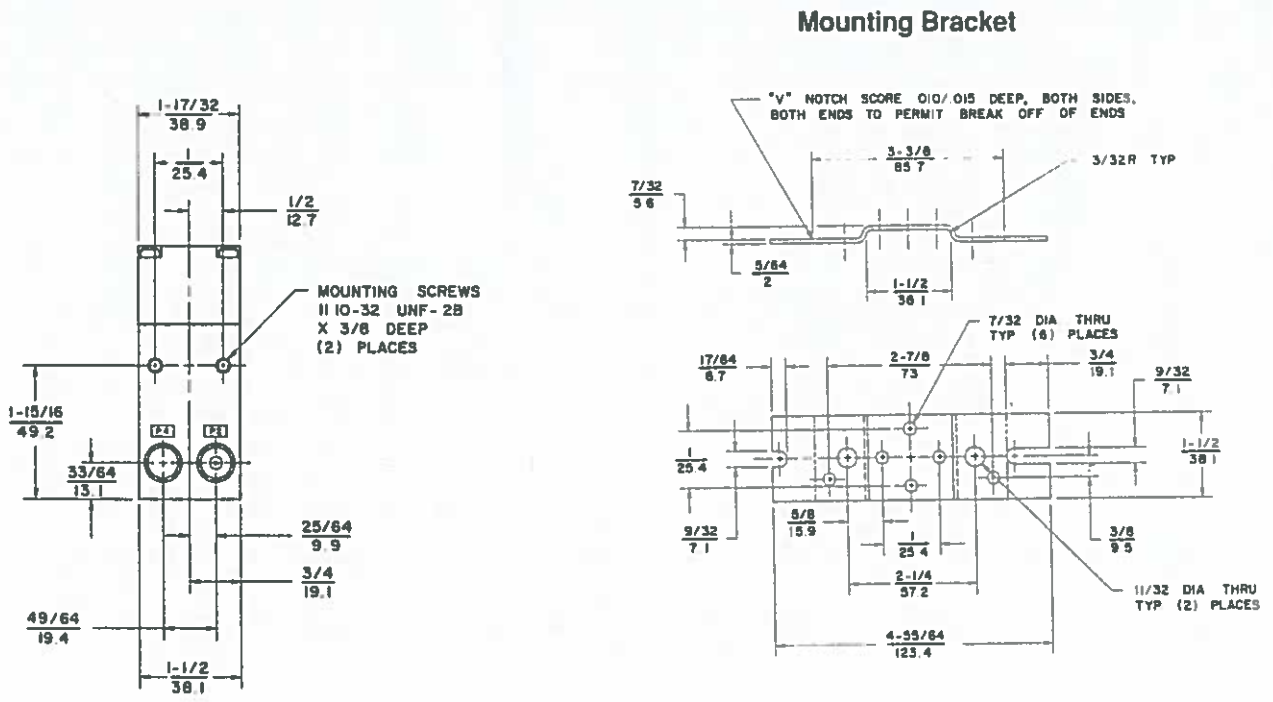
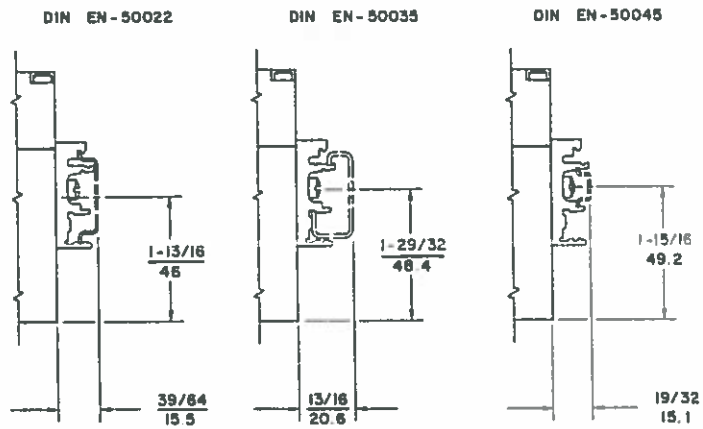


Figure 4



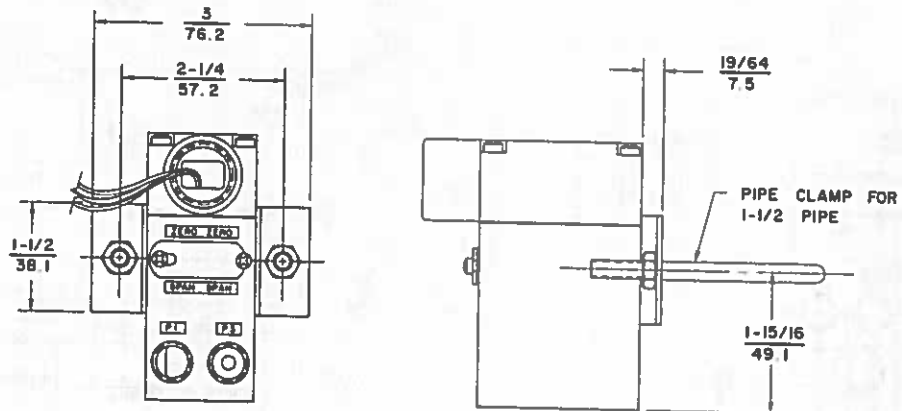
OPTIONAL DIN RAIL MOUNTING KIT EA-16693-1

Shown with Compatible Rails

Figure 5

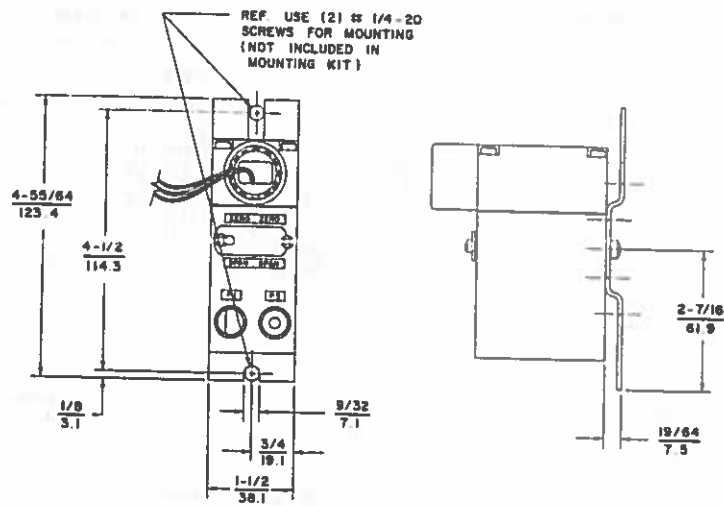
OUTLINE DIMENSIONS

MOUNTING KITS



STANDARD MOUNTING KIT EA-16799-1
BRACKET IN HORIZONTAL POSITION
BREAKAWAY TABS REMOVED

Figure 6



STANDARD MOUNTING KIT EA-16799-1
BRACKET IN VERTICAL POSITION

Figure 7

OUTLINE DIMENSIONS

Explosion Proof Model TFXPD-8000 (Pending)

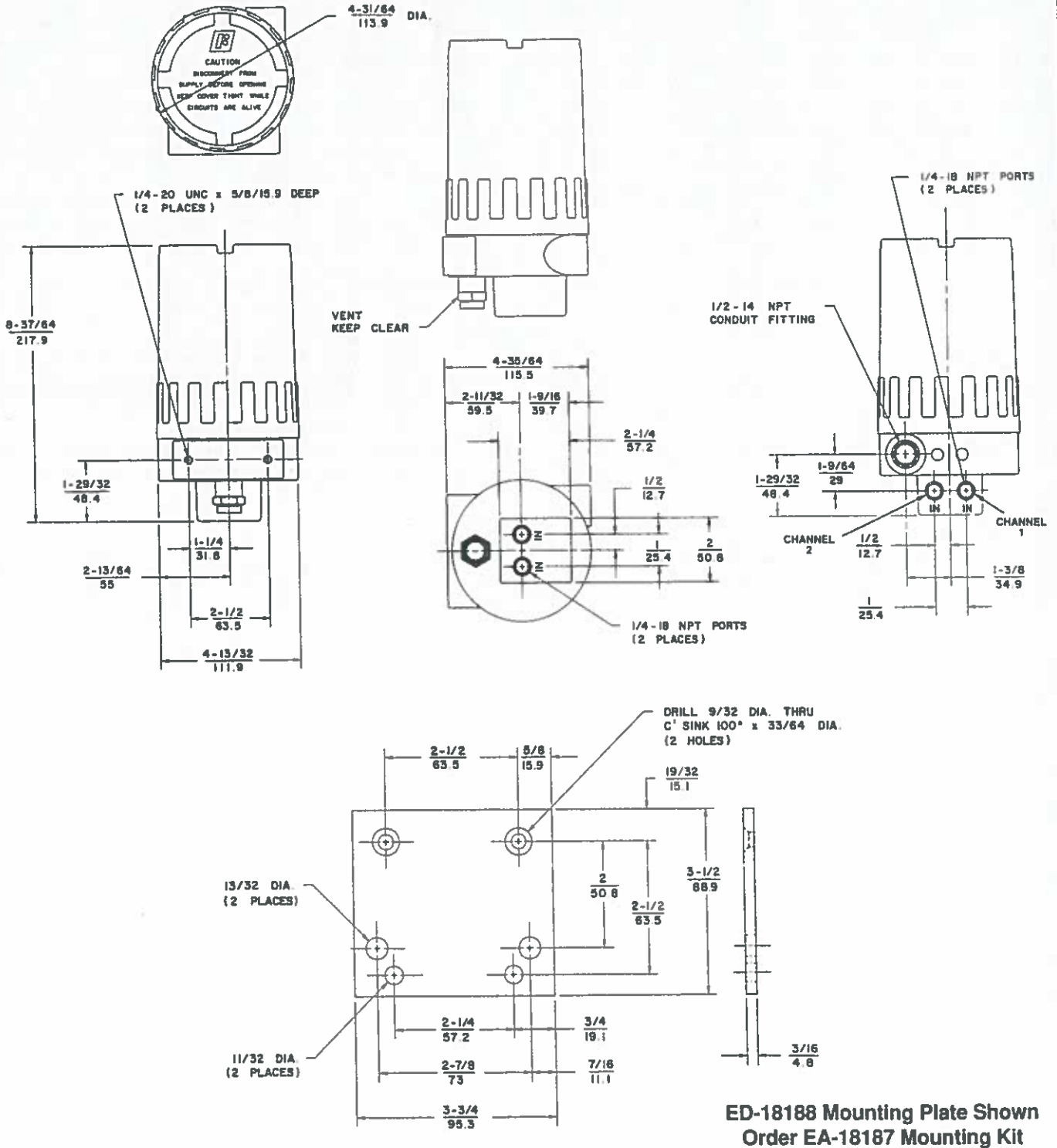


Figure 8

CROSS-SECTIONS

PRINCIPLES OF OPERATION

Principles of Operation

The T8000 is a two wire pressure transducer that converts a pneumatic signal to a current output.

The PC Board Assembly contains a PIEZO RESISTIVE electric sensor which changes resistance in proportion to the pneumatic pressure applied to the sensor.

The sensor is connected in a Wheatstone bridge configuration. The input air pressure on the sensor induces a PIEZO RESISTIVE change in the sensor which causes a bridge unbalance and results in a differential current flowing into a current source device.

The current source supplies current output proportional to pneumatic input. Zero and Span adjust potentiometers accessible from the front of the unit allow for bridge balance and setting of Span.

The T8000 makes use of two wire transmission principles, drawing current from a remote power supply in proportion to the sensor signals.

For a standard single channel unit, the PC board is plugged into the right hand side of the transducer case which is ported so that pneumatic input, applied to either the P3 or the P4 port will act on the sensor.

For a two channel unit, the second PC board is plugged on the left hand side and pneumatic input is applied to either the P1 or the P2 port.

TR8000 UNIT

The TR8000 transducer operates in the same manner as the T()8000 transducer. The TR8000 unit is the same as a TT8000 unit (terminal strip) except that the terminal strip faces to the back of the transducer. This unit is designed to plug into a TR8000 Rack Unit and the terminal strip would be accessible at the back of the rack.

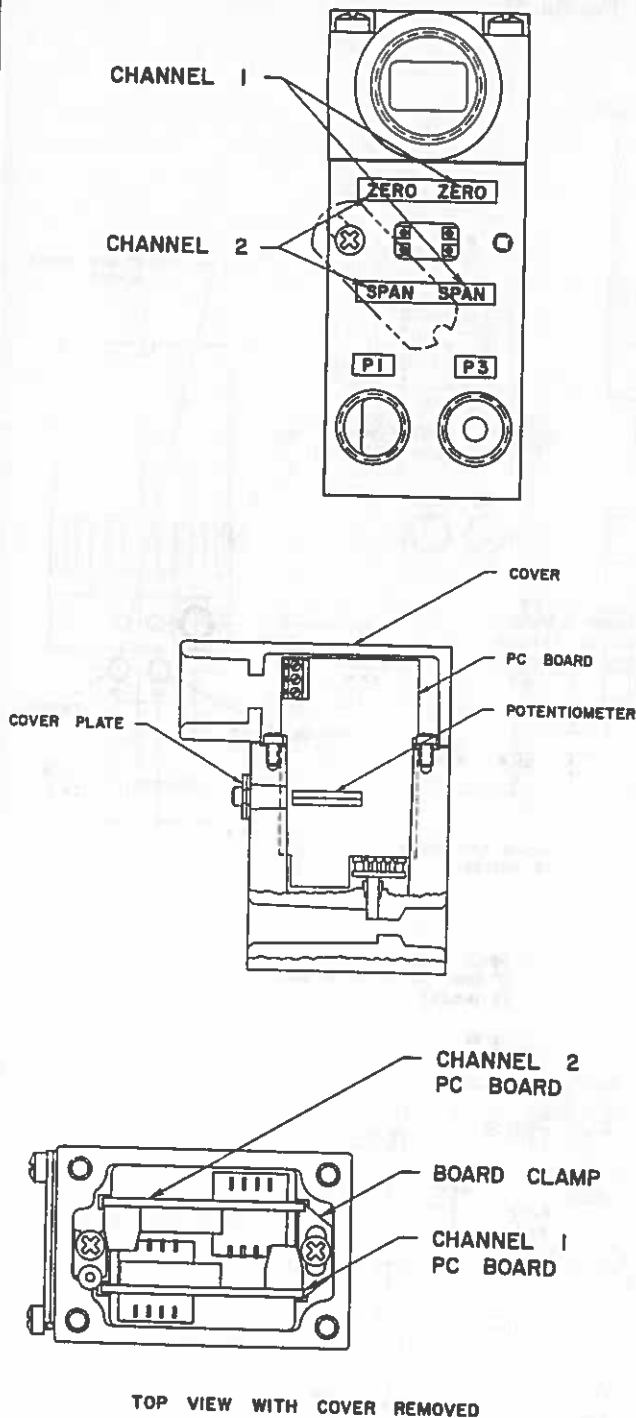


Figure 9

CROSS-SECTIONS

PRINCIPLES OF OPERATION

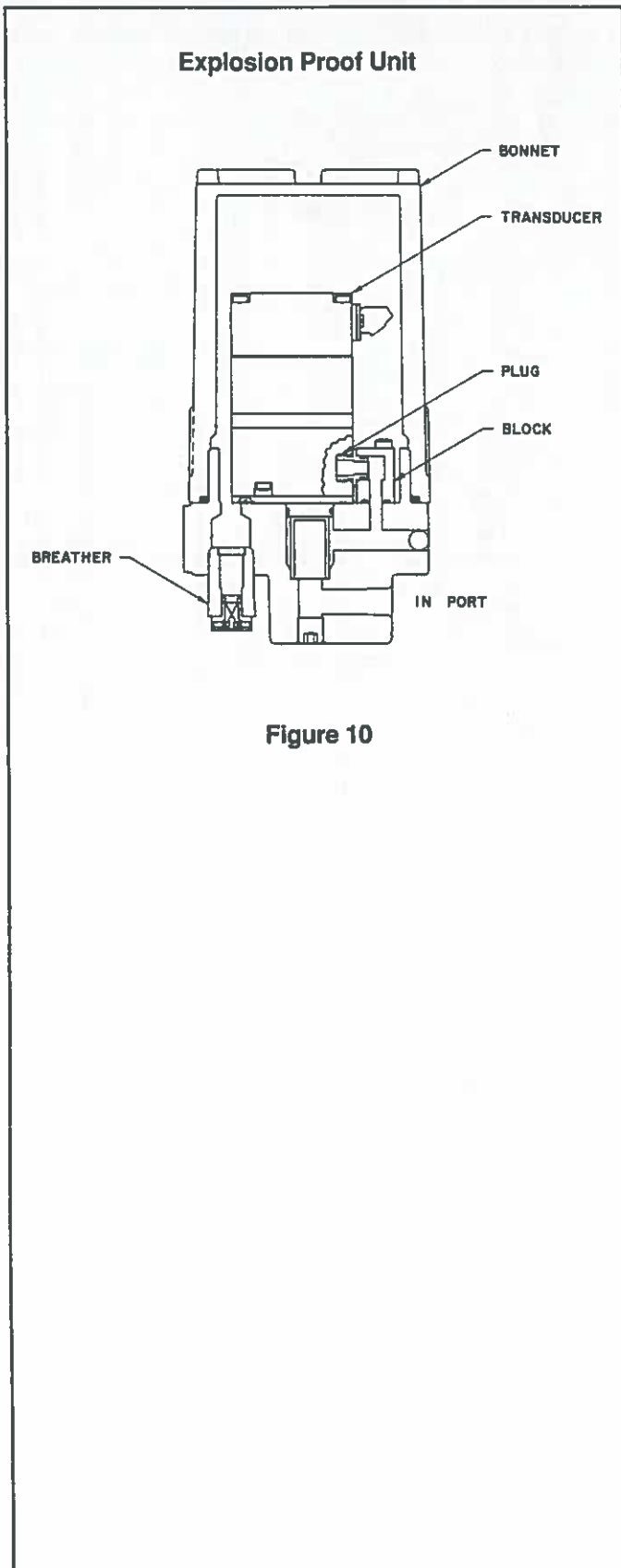


Figure 10

Explosion Proof Unit (Pending)

The TB000 transducer is isolated from an explosive environment by enclosing it in an explosion proof housing. Air pressure is ported through a block which is sealed to the base by O rings and then transmitted through an O ring sealed plug to the input port of the transducer. An O ring seals the bonnet and the base of the housing. Output current is obtained by wiring to the terminal strip through the conduit fitting in the base of the explosion proof unit.

TYPICAL APPLICATIONS

Model T8000 Application

The Model T8000 may be used to convert the output of a pneumatic transmitter (flow, pressure, temperature) to a 4-20 milliampere loop signal for transmission to an electronic central control room, thus eliminating use of an obsolete pneumatic control room.

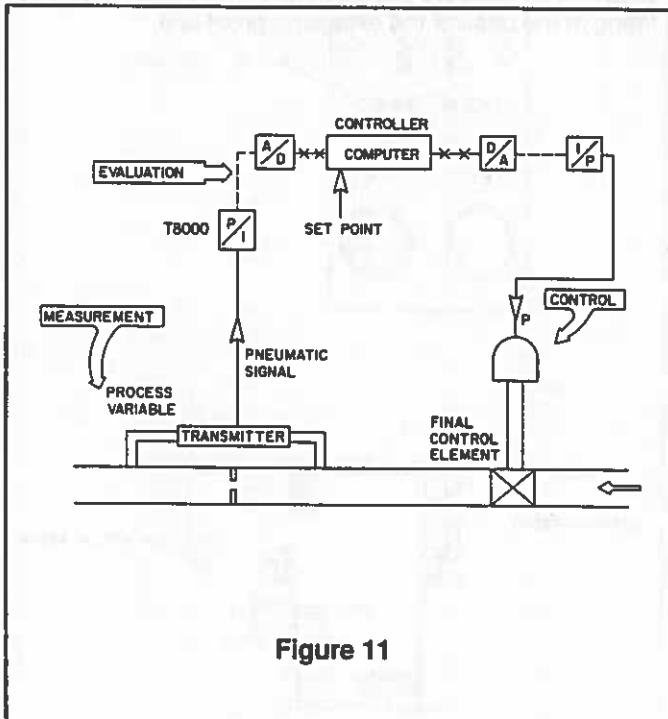


Figure 11

SERVICE INFORMATION

Parts are available for repairing the T8000 transducer. Please refer to the installation, Operation and Maintenance Instructions for this unit.

ORDERING INFORMATION

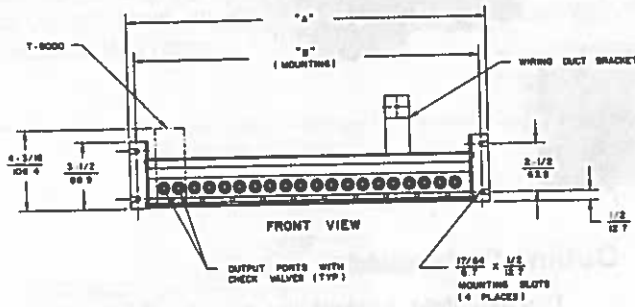
To order, please refer to the example outlined below and specify input range and electrical connections with appropriate numbers or letters.

Catalog Number	T	A	800						
Transducer									
Electrical Connections									
1/2NPT conduit fitting with pigtail		(A)							
Terminal Strip		(T)							
DIN 43650 connect		(D)							
Rack Mounted		(R)							
(Leave blank for explosion proof units)									
*Underwriting Group									
Factory Mutual		(F)							
Canadian Stds		(C)							
BASEEFA		(E)							
*Approval Class									
Intrinsically Safe		(I)							
Explosion Proof and		(X)							
NEMA 4X									
Accuracy									
0.10%		(1)							
Pneumatic Input Channel 1 (psig)									
0-5		(3)							
0-15		(4)							
0-30		(5)							
0-60		(6)							
0-120		(7)							
Pressure Type									
Gage		(1)							
Current Output Channel 1 (mA)									
4-20		(1)							
10-50		(2)							
Pneumatic Input Channel 2 (psig)									
0-5		(3)							
0-15		(4)							
0-30		(5)							
0-60		(6)							
0-120		(7)							
Pressure Type									
Gage		(1)							
Current Output Channel 2 (mA)									
4-20		(1)							
10-50		(2)							
If Channel 2 not used add "000" to catalog number									
BSPT Option		(U)							

*All Approval Pending

OUTLINE DIMENSIONS

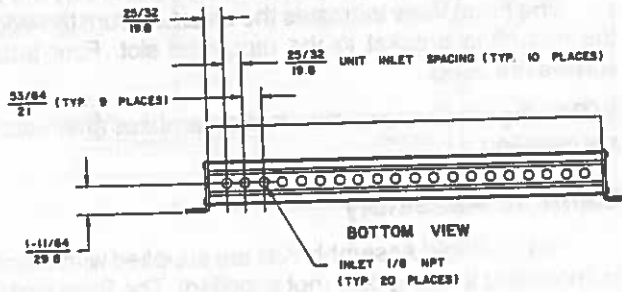
Manifold Assemblies



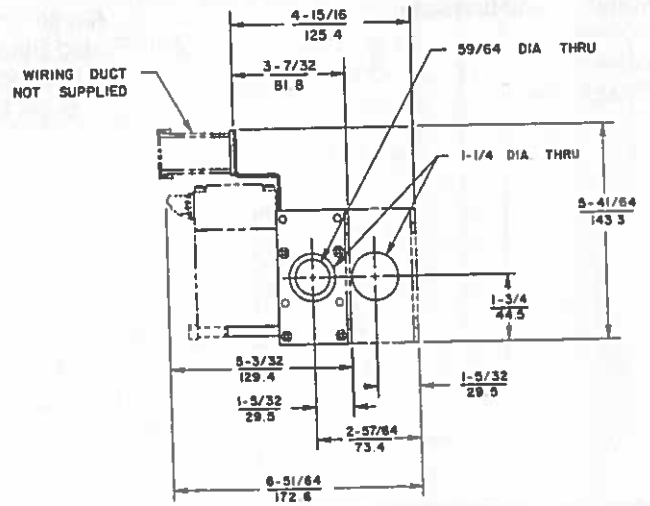
Manifold Dimensions for NPT Ports

Part No.	No. of Units	Length "L"
EB-18538-3	3	5.55 (140.97 mm)
EB-18538-5	5	8.75 (222.25 mm)
EB-18538-10	10	16.75 (425.45 mm)
EB-18538-15	15	24.75 (628.65 mm)

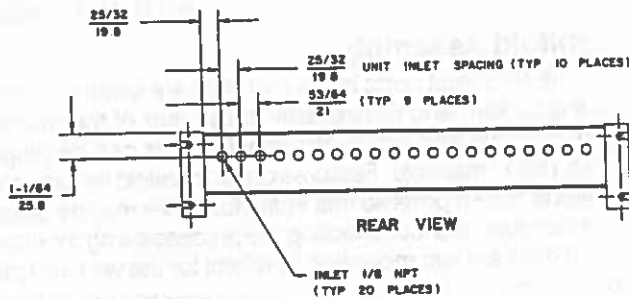
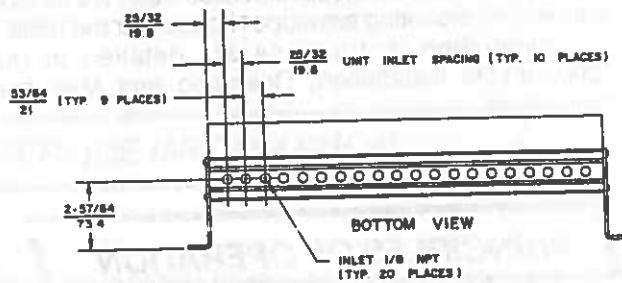
Flush Mount EB-18533



Standard Unit Mounted



Extended Wall Mount EB-18534



NOTE: Manifold kits include plug-in adapter kits for transducers.

NOTE: End views show dimensions from mounting surface to center of large center hole for flush mount and extended wall mount.

Figure 12

APPLICATIONS

Fairchild T-8000 Series Manifold Assembly Kits are used to mount T-8000 Series transducers in multiples of 3,5,10 and 15 units.

Check valves are included in the manifold ports so that individual transducers may be plugged in or removed without affecting system operation.

HOW TO ORDER

To order, please refer to the example.

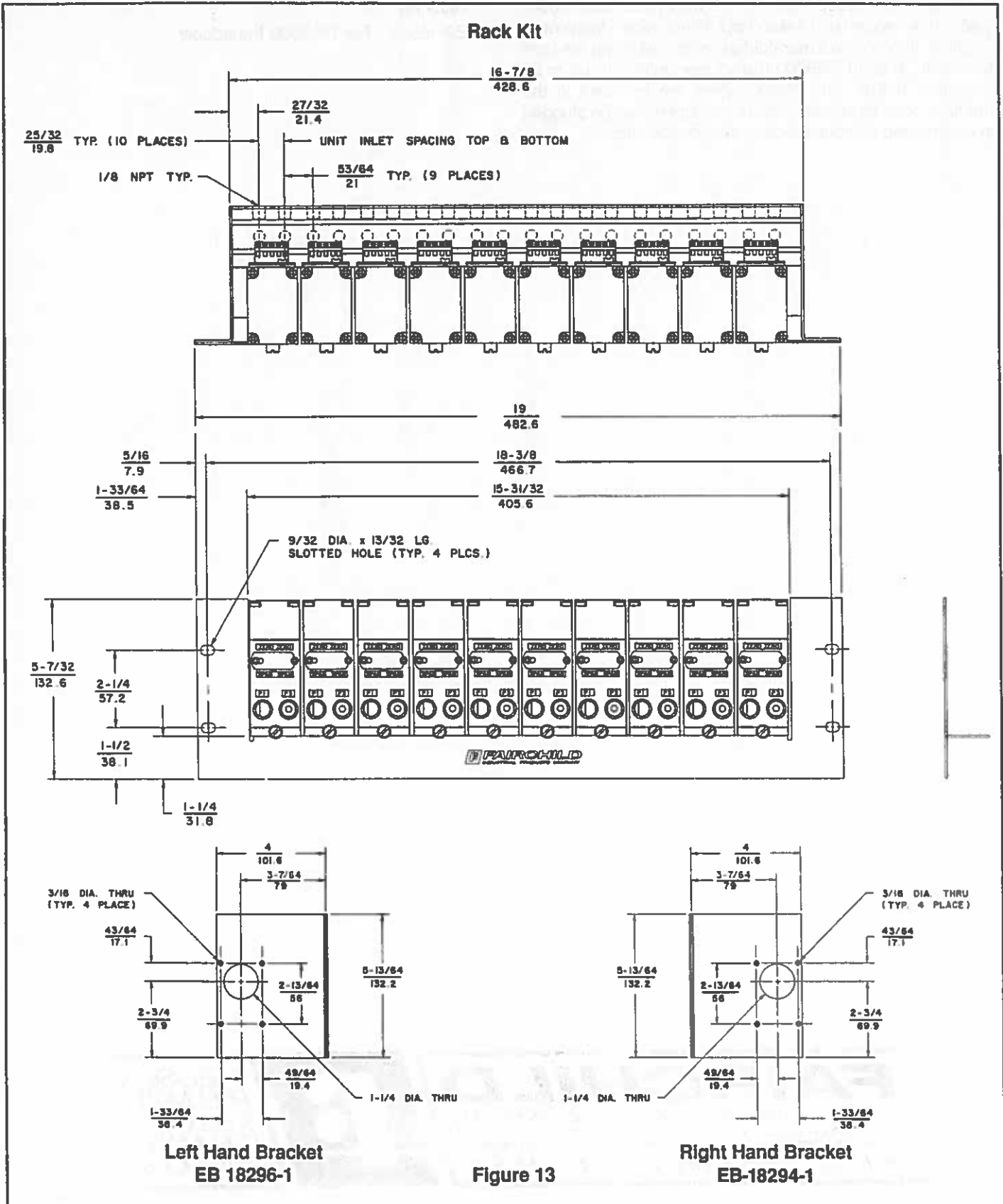
Manifold Assemblies

Example EA-18533-5

EA-		-5
Type of mount	_____	
Flush	EA-18533	
Extended wall	EA-18534	
Number of Transducer positions	_____	
Three	(3)	
Five	(5)	
Ten	(10)	
Fifteen	(15)	

*Manifold kits include plug in adapter kits for Transducers

OUTLINE DIMENSIONS

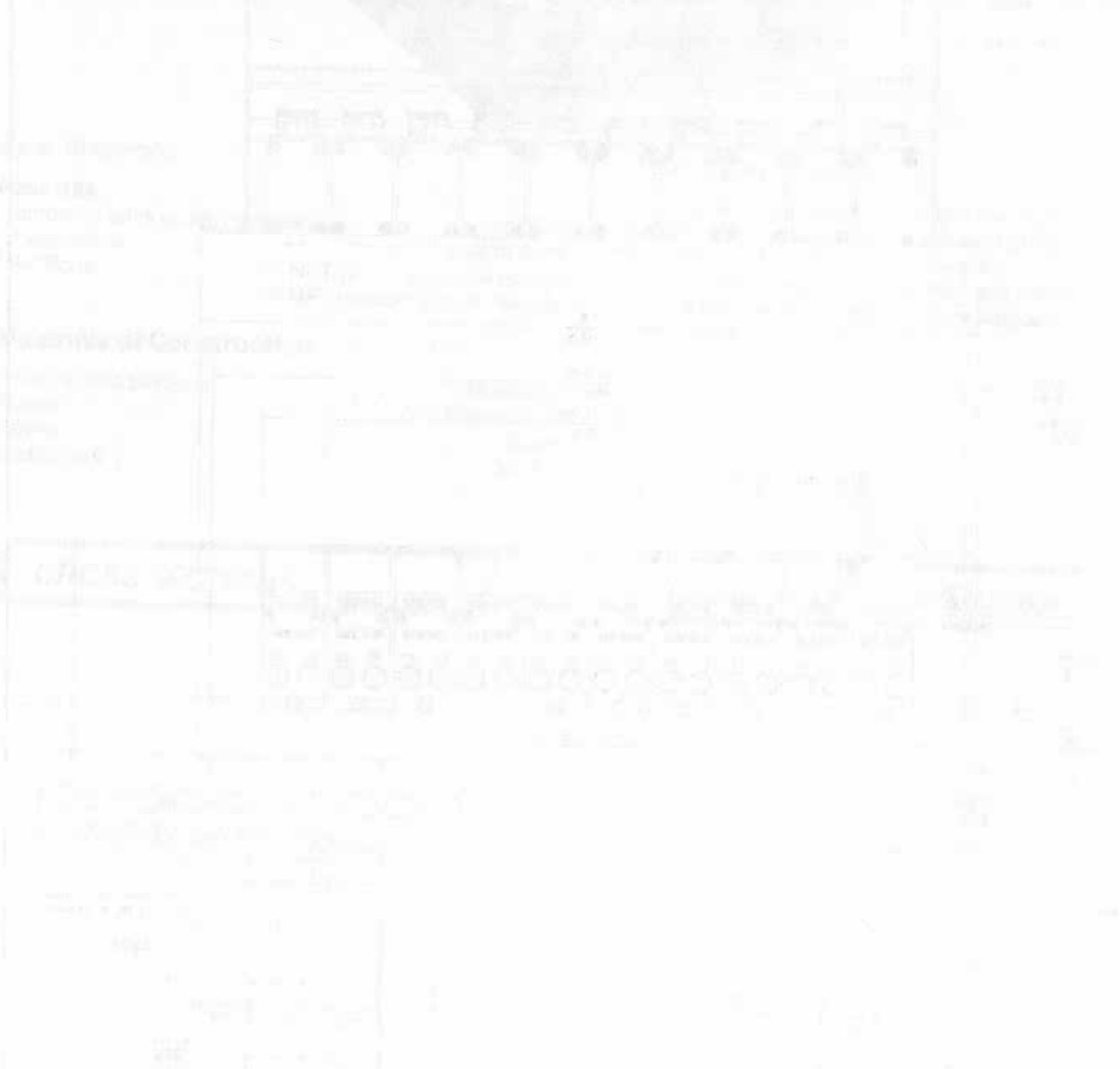


APPLICATIONS

Fairchild TR8000 Rack kits are front panel assemblies that can be mounted in a standard 19 inch rack. Provision is made to incorporate a manifold assembly allowing the user to mount up to 10 TR8000 transducer units with up to 20 channels in the unit. Check valves are included in the manifold ports so that individual transducers may be plugged in or removed without affecting system operation.

HOW TO ORDER

Rack Kit
EA-18536-1 For TR-8000 Transducer



FAIRCHILD
INDUSTRIAL PRODUCTS COMPANY
3920 WEST POINT BLVD. • WINSTON-SALEM, NC 27103-6708 • USA
TELEPHONE 919/659-3400 FAX 919/659-9323 TELEX 4614016
FOR TOTAL CONTROL WHEN THE PRESSURE'S ON



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