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TECHNOLOGY GROUP

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Custom engineering
so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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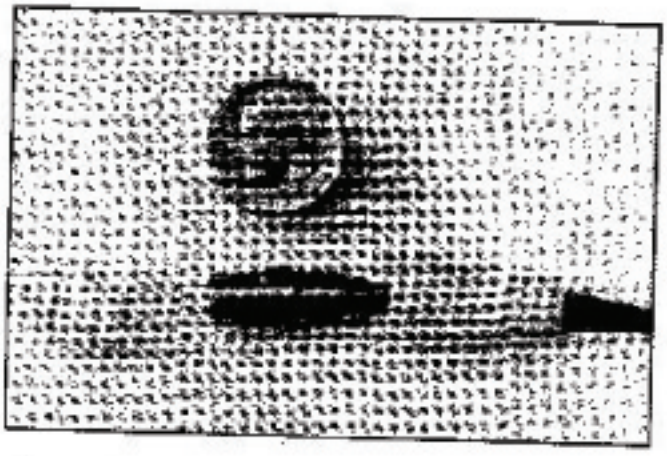
Find the *Micron Instruments MP15* at our website: ***Click HERE***

MICRON

MODEL MP15
PRESSURE TRANSDUCER

FEATURES

- HIGH FREQUENCY RESPONSE
- CORROSIVE RESISTANT
- STANDARDIZED OUTPUT
- SMALL SIZE/RUGGED
- LIGHT WEIGHT



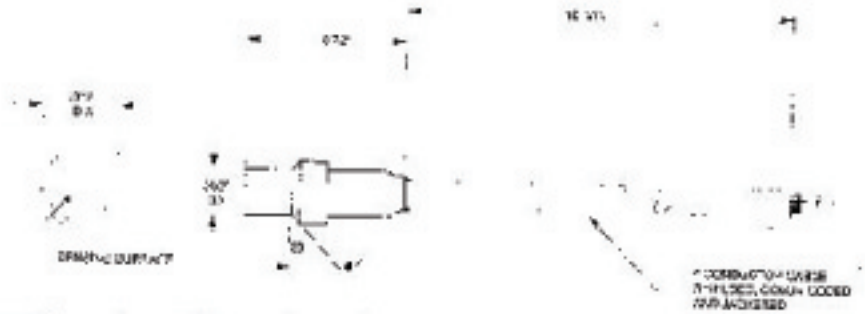
GENERAL

The MP15 Pressure Transducer is a semi-conductor strain gage device. Its ability to withstand overpressure and compatibility with most biomedical recording systems makes this transducer ideally suited for the research industry. Cable connector is factory wired. Please specify manufacture and model of the recording system with which the transducer will be operated.

SPECIFICATIONS

Pressure Range	-50 to +300mm Hg
Material	Titanium (6AL,V)
Overpressure	-750 to +6000mm Hg
Excitation	10 v D.C.
Max Excitation	12v max A.C. or D.C.
Sensitivity	50 µv/v/cm Hg ±1%
Non-Linearity & Hysteresis	±0.5% FS
Volume Displacement	9 x 10⁻⁵ mm³/mm Hg
Electrical Leakage	300 meg ohms at 120v D.C.
Bridge Impedance Input	1500 ohms nominal without dropping resistors
Ouput	500 ohms nominal
Weight	3 grams (less cable)
Cable Length	10' standard
Long Term Stability	±1% FS/24 hrs. max., 32°C to 43°C
Sterilization	Ethylene Oxide Gas or Chemical Sterilization

OUTLINE



4509 Runway Street - Simi Valley - California - 93063

805 - 522 - 4676 FAX 805 - 522 - 4982

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3-5-96 good

000434B	**Micron Instruments** 4509 Runway St. / Simi Valley / California 93063 / (805) 522-4676	Lot Number

Temperature Compensation and Precalibration Worksheet

		R1	R2	R3	R4
Unmounted Gage Values	0°F	508	510	510	511
	85°F	565	565	565	565
	185°F	651	650	652	652
Delta in Ohms		-56.0	-62.0	-70.0	-68.0
Mounted Gage Values at 85°F	0 mmHg	507	503	495	497
	300 mmHg	511	496	500	493
Delta @ 300 mmHg		+4.0	-7.0	+5.0	-4.0

Total Delta Ω @ 300 mmHg = 20.0 RS1&2 Approximation = 1.50

Diaphragm Thickness: .002 F.Q. 0

Serial No. A 1103 I.D. No. M 1002

Gage Lot No. 245 Gage Type -037

Form Started by: KT

Mounted Gage Values by: KT

Temp. Comp. by: [illegible]

Cal by: [illegible]

Final Q.C. [illegible]

Rework Required: ____

RB @ 85°F 2 / 2.1 Ω

Bi = 10 VDC

mv @ 60°F -96 mv @ 110°F +130 Delta 226 mv

Try 3 & 1 = 23.7 K RB 3 @ 212 Ω 201 mv

mv @ 60°F -152 RZ= 40.4 K RB 3 @ 9.2 Ω 103 mv

mv @ 110°F +35 RZ= 40.2 K RB 3 @ 10.7 Ω 102 mv

mv @ 60°F +105 RZ= ____ K RB ____ @ ____ Ω ____ mv

mv @ 110°F ____ RZ= ____ K RB ____ @ ____ Ω ____ mv

mv @ 60°F ____ RZ= ____ K RB ____ @ ____ Ω ____ mv

mv @ 110°F ____ RZ= ____ K RB ____ @ ____ Ω ____ mv

mv @ 60°F ____ RZ= ____ K RB ____ @ ____ Ω ____ mv

mv @ 110°F ____ RZ= ____ K RB ____ @ ____ Ω ____ mv

Passive Resistive Calibration / Compensation Network - Preliminary Values:

RZ 3 & 1 = 40.2 KΩ

RB 3 = 6.3 Ω

RS1= 1.50

RS2= 1.50

0 mmHg = ____ mV

300 mmHg = ____ mV

Full Scale = ____ mV

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Prepared By: R.R

Model: MP-15

MICRON INSTRUMENTS, INC.
1519 PUTNAM AVE. LOS ANGELES, CA. 90025/(213)478-0964

CALIBRATION WORK SHEET

R.O.#

Serial # A1003

I.D. #

Date 9-25-90

CUSTOMER: G.D. Searle

EXCITATION 10 V.D.C

WIRED FOR E for M

RANGE 300 mm Hg

CONNECTOR W CANNON

SENSITIVITY: 50 MV/V/mm Hg

WIRING NO. 012

PART NO WKG-21C-V4

+EX	-EX	+SIG.	-SIG.	BALANCE	SHIELD	CAL. R.	CAL. VAL mm Hg	JUMPER
1	4	2	3		5			2 6
RS 1	RS 2	RZ 3	RZ 1	RB 3				
1.50 K	1.50 K	40.2 K	40.2 K	10.2 Ω				

LINEARITY AND HYSTERESIS

mm Hg	mv output Increasing Pressure	mv output Decreasing Pressure	IDEAL	LINEARITY	HYSTERESIS
0	0.02		+ .02		-.02
100	5.00	5.03	5.00	.02	.03
200	10.02	10.02	10.03	-.01	.02
300	15.04		15.04		
F.S.	15.02			-.01 %	-.03 %

Full Scale (F.S.) must equal 15.00 mv ± 1% max. & Linearity and Hysteresis must not be >.5% of full scale.

FINAL CALIBRATION DATA

mm Hg	mv
0	+.02
300	15.04
F.S.	15.02

INPUT RESISTANCE 3.482 KΩ

OUTPUT RESISTANCE 502.6 Ω

CAL. @ _____ mm Hg = _____ mv

ACTUAL CAL. @ _____ mm Hg = _____ mv

Final Isolation Check: 509 Ω (Must be > 300MΩ)

Final Q.C. Performed by:

Serial No. tag proofread & packaged by:

Ship Date: 9-26-90

UUU405D

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We buy equipment

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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