

INTERNATIONAL
TRANSDUCER CORP.
SUBSIDIARY OF CHANNEL TECHNOLOGIES
869 WARD DRIVE, SANTA BARBARA, CALIFORNIA 93111
(805) 965-1111 • FAX (805) 965-1112 • WWW.ITC-USA.COM



DATE: _____

ITC-8201

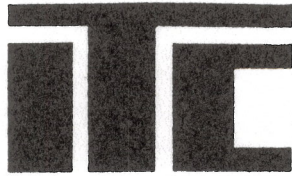
S/N 209

Project Engineer

Project Engineer



INTERNATIONAL TRANSDUCER CORP.
Subsidiary of Channel Technologies
869 Ward Drive Santa Barbara, CA 93111



INTERNATIONAL TRANSDUCER CORP.

A SUBSIDIARY OF CHANNEL TECHNOLOGIES
869 WARD DR., SANTA BARBARA, CALIFORNIA 93111-2959
(805) 683-2575 • FAX (805) 967-8199 • www.itc-transducers.com

DATE: 5/18/99

MONTEREY BAY AQUARIUM
RESEARCH INSTITUTE
P.O. BOX 628
MOSS LANDING, CA. 95039-0628

Gentlemen:

Enclosed please find the test data for your Purchase Order
Number/Contract Number 9900294.

If you have any questions regarding the data or unit operation,
please contact KURT EYSTER, Project Engineer.

Sincerely yours,

CURT MADISON
Manager, Quality Assurance
Extension #537

Albert Rodriguez
(Final Inspections)
Extension #534

ITC-8201D Serial No. 209

W.O.2865

Water Temp: 17 deg C

Test Dist: 2 m

Test Depth: 2 m

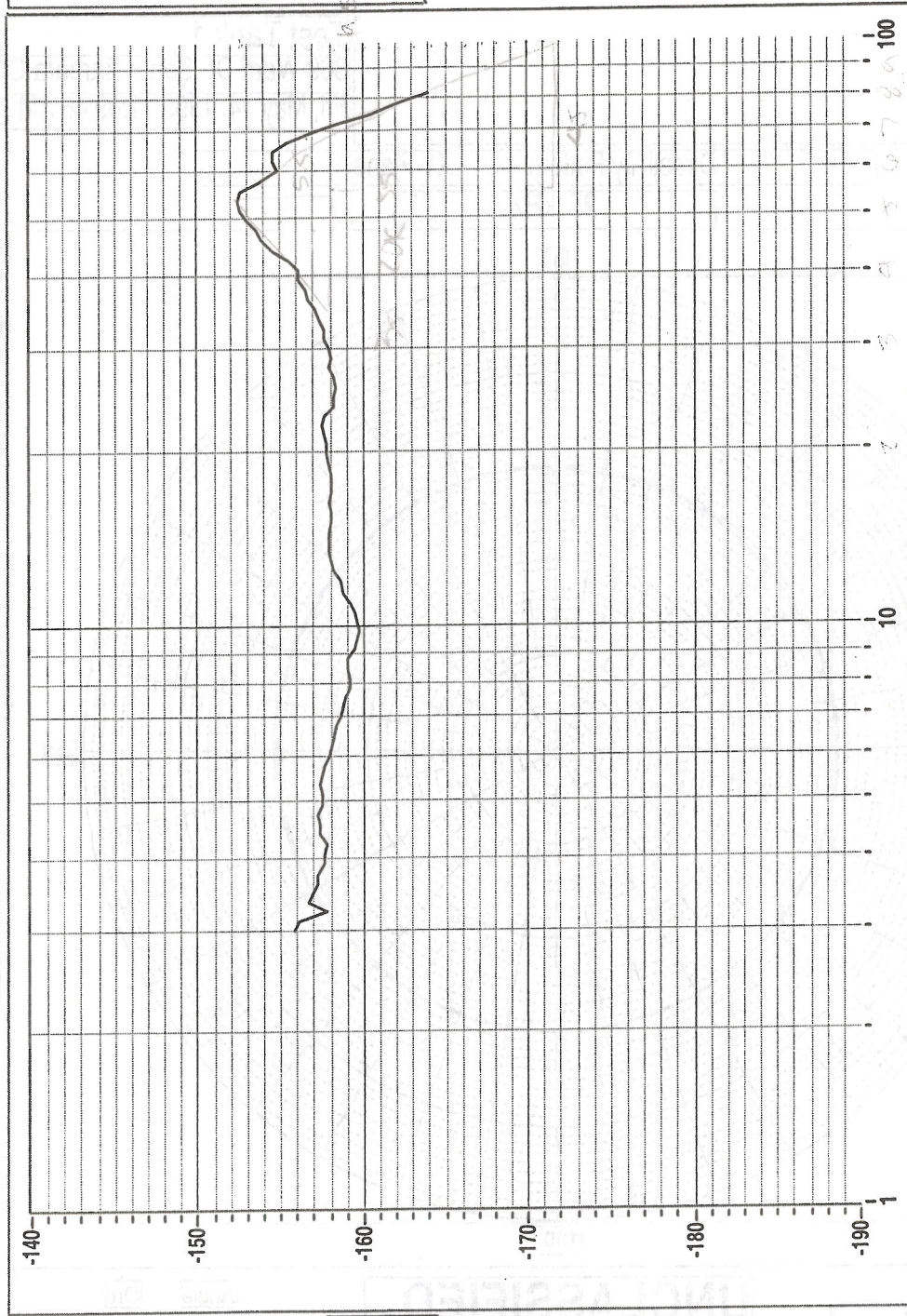
International Transducer Corp.

Test Tank 1

869 Ward Dr. Santa Barbara CA 93111

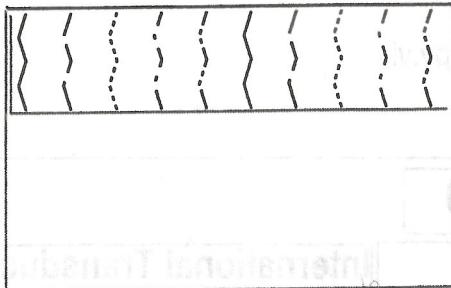
Tue, May 18, 1999 10:06:02 AM

Receive Sensitivity vs Frequency



Receive sensitivity (dB/
V/uPa)

Frequency (kHz)



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UNCLASSIFIED

TC- 8201

Serial Number 209

International Transducer Corp.

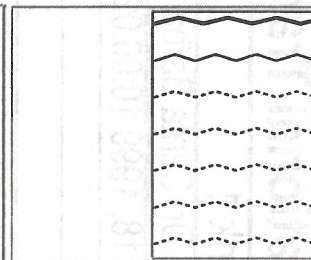
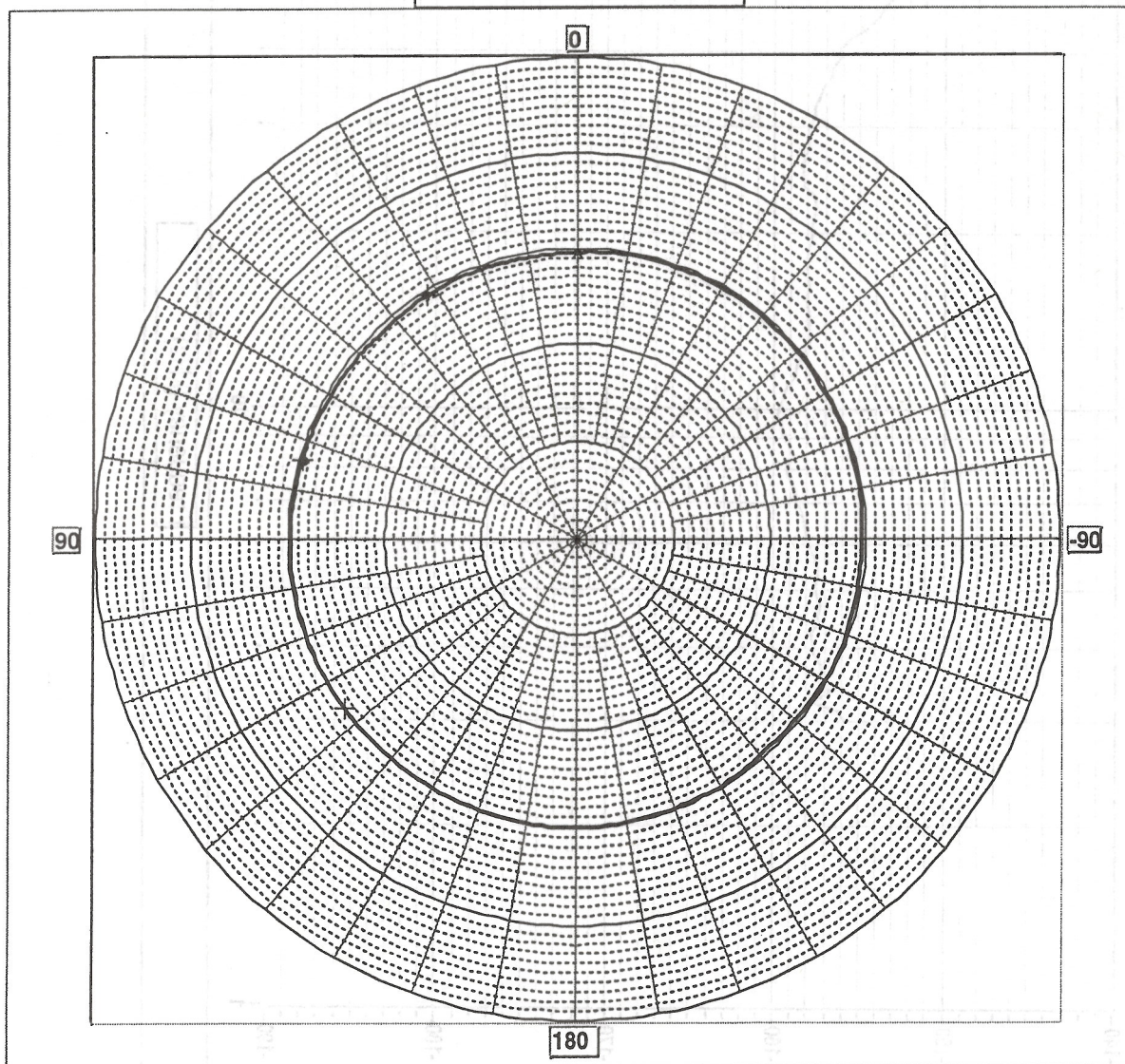
Test Tank 1

869 Ward Dr. Santa Barbara CA 93111

Fri, May 14, 1999 11:09:46 AM

Directivity Pattern XY Plane

25 kHz

**Graph Info.**

Outer Circle 20 dB
 Center -30 dB
 dB/Div 1 dB

UNCLASSIFIED

Angle

Ord

Cursor 1	0.00	-0.41		
Cursor 2	73.92	-0.26		
Cursor 3	-233.80	-0.09		
Cursor 4	31.93	-0.47		

Q_M_polar_plot_Hard_Copy.vi
 Labview\GQM-2b\Gqm2b_pl.lib\FQM_polar_plot_Hard_Copy.vi
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UNCLASSIFIED

C- 8201

Serial Number 209

International Transducer Corp.

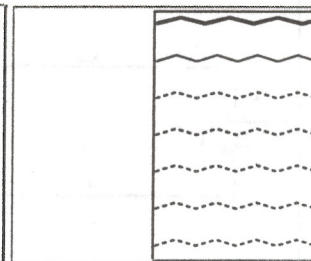
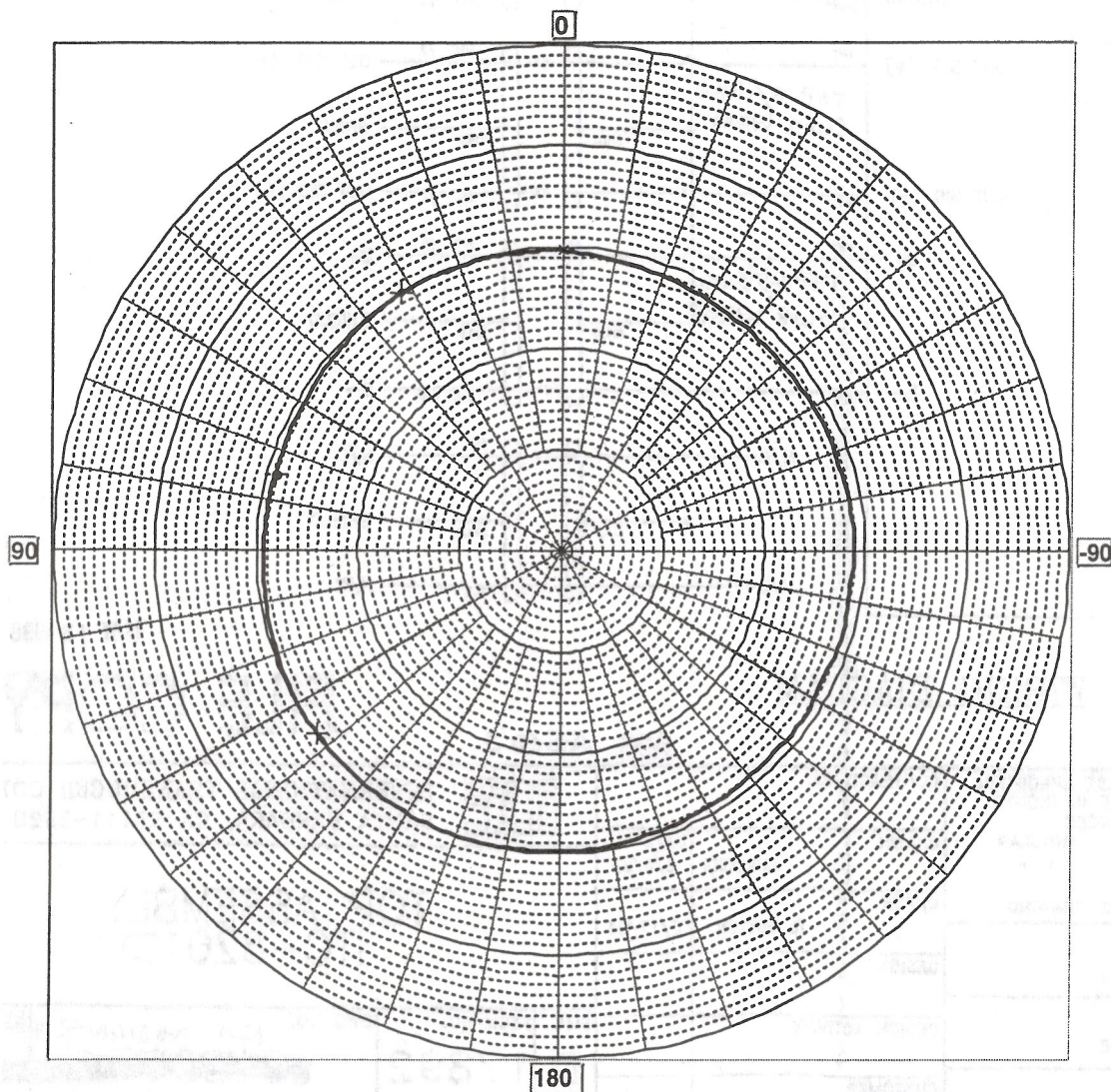
Test Tank 1

869 Ward Dr. Santa Barbara CA 93111

Fri, May 14, 1999 11:08:08 AM

Directivity Pattern XY Plane

50 kHz

**Graph Info.**

Outer Circle 20 dB
 Center -30 dB
 dB/Div 1 dB

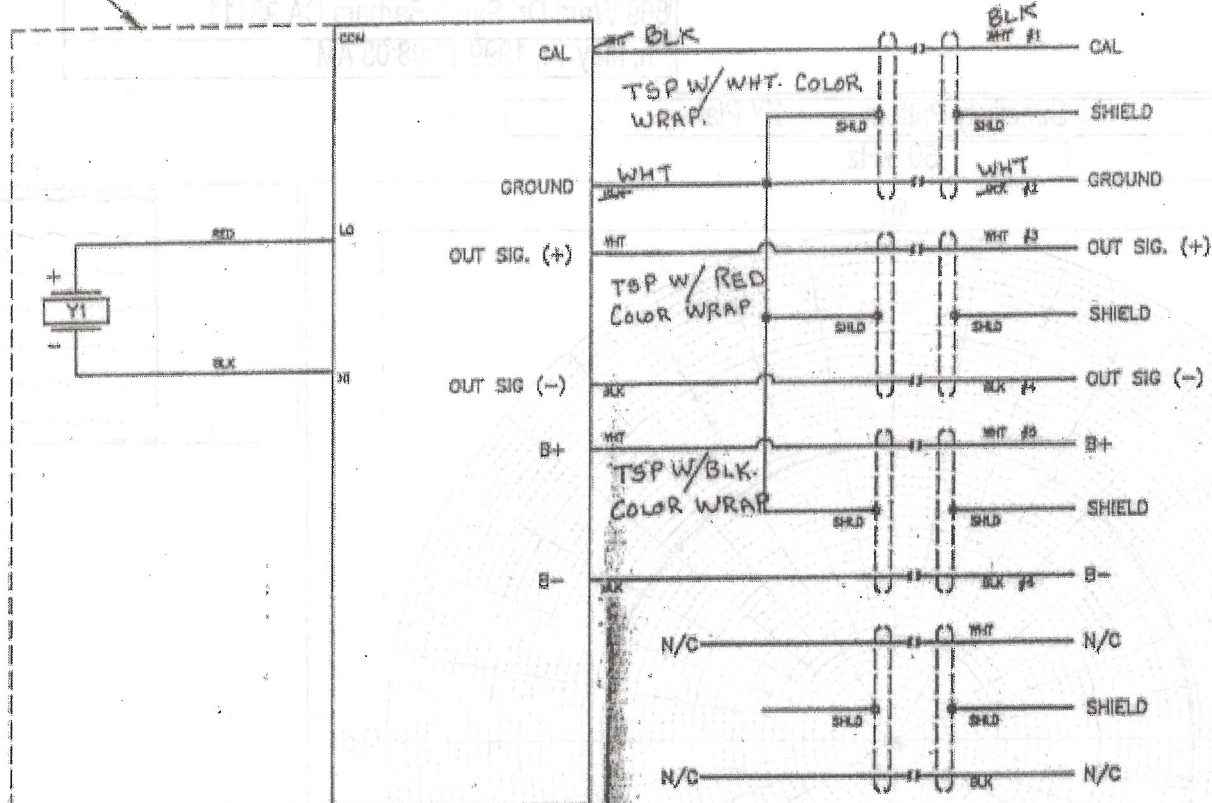
UNCLASSIFIED

Angle Ord

Cursor 1	0.00	-0.38	☐	☒	☐
Cursor 2	74.74	-0.80	☒	☐	☐
Cursor 3	-233.00	-0.10	☐	☐	☒
Cursor 4	31.96	-0.05	☐	☒	☐



(EXMET SHIELD)



WIRING DIAGRAM

MAY 18 1999

FILE COPY

SEE AECO'S

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .02 ANGULAR .XXX ± -- DO NOT SCALE DRAWING		CONTRACT NO.		ITC INTERNATIONAL TRANSDUCER CO SANTA BARBARA, CA 93111-2920	
MATERIAL LISTED		DRAWN J. JURQUIDI DATE 5/6/93		TOP ASSEMBLY ITC-8201D	
FINISH NONE		CHECK R. BUTTON 5/17/93			
TREATMENT NONE		DESIGN		SIZE FSCM NO. DWG NO. NOT ASSIGNED	
APPLICATION		DESIGN ACTIVITY		D 17892	
USED ON		CUSTOMER		SCALE 1:1 SYS B PATH SHEET 1 OF 4	

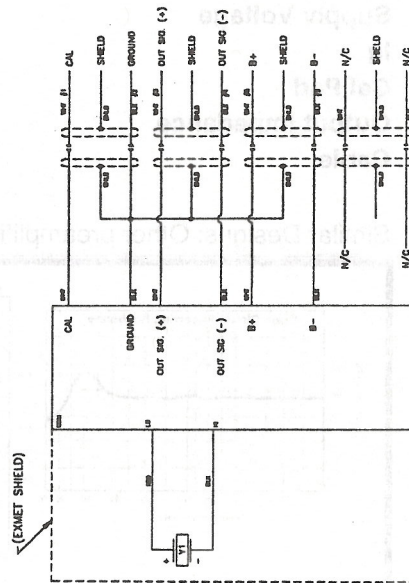
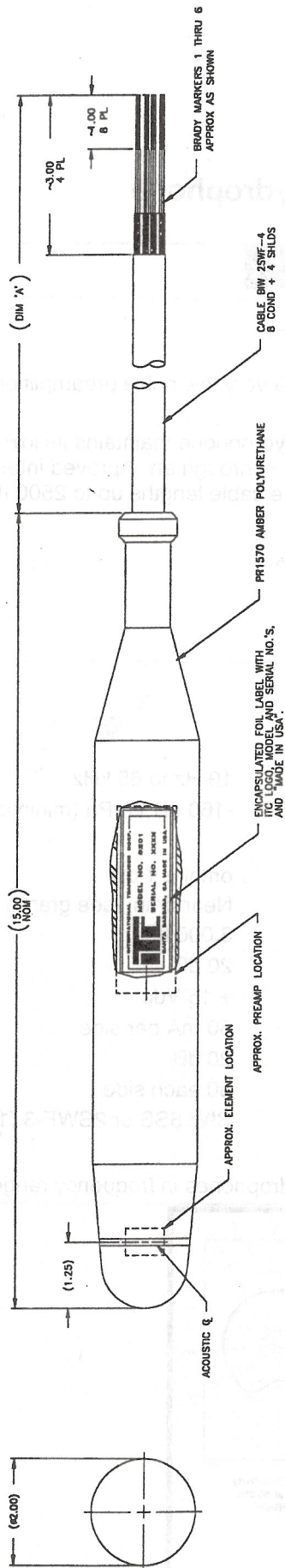
CUSTOMERS
COPY

DATE MAY 18 1999 BY *PA*

DASH NO.	DIMENSION 'X'
-1	30 FT 48"
-2	75 FT 48"

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REV	DATE	BY	CHKD	DESCRIPTION
1	7/1/93	JAL		REVISED FOR ITC NO. 730M
2	7/7/97	JD		REVISED WIRE DIAGRAM & CABLE



WIRING DIAGRAM

CONTRACT NO.		DATE	
DRAWN		7/1/93	
CHECK			
DESIGN		7/1/93	
DESIGN ACTIVITY			
CUSTOMER			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES DECIMALS FRACTIONS ANGULAR			
DO NOT SCALE DRAWING			
MATERIAL		LISTED	
FINISH		NONE	
TREATMENT		NONE	
APPLICATION			
ITC-8201			
01893			
REV. 01			
INTERNATIONAL TRANSDUCER CORP. SANTA BARBARA, CA 93111-2820		OUTLINE & INSTALLATION ITC-8201	
REV. 01		D 17892	
SCALE 1:1		PYS B PASH	
SHEET 1 OF 1		REV. 01	



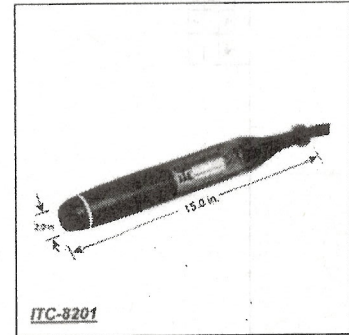
Low Noise Differential Output Hydrophone

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[Products Air](#)

Model ITC-8201

The ITC-8201 has a differential output with a very low noise preamplifier.

Although polyurethane encapsulated, this hydrophone maintains its low frequency roll-off over long term deployments through an improved internal insulation technique. The ITC-8201 can drive cable lengths up to 2500 ft.



Dia: 2.00" Length: 15.00"

Specifications (Nominal)

Operating Frequency Range

10 Hz to 65 kHz

Midband Sensitivity

-160 dB V/ μ Pa (minimum)

Beam Pattern

Horizontal

omni ± 1 dB

Vertical (over 270°)

Near omni (see graph)

Depth Capability

3,000 ft.

Preamp Gain

20 dB

Supply Voltage

± 15 Vdc

Iq

50 mA per side

Cal Pad

20 dB

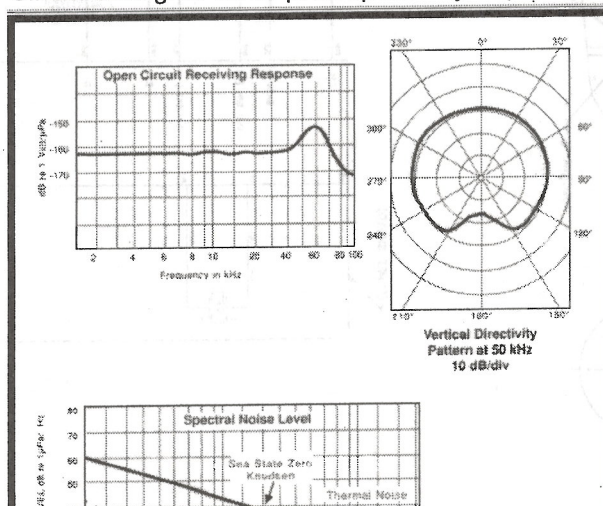
Output Impedance

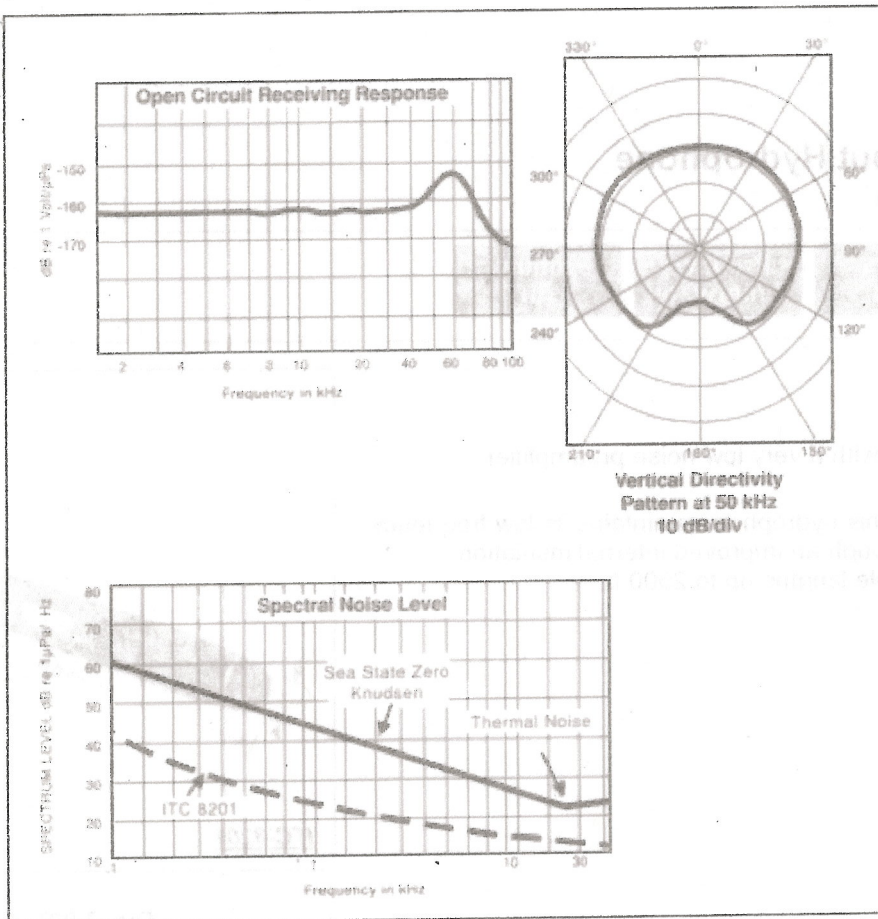
30 each side

Cable

BIW 5SS or 2SWF-3 (10 ft.)

Similar Designs: Other preamplified hydrophones in frequency ranges 5Hz to 500 kHz





International Transducer Corporation 869 Ward Drive, Santa Barbara, CA 93111 Tel: 805-683-2575

