

"WITHOUT AN ORIGINAL THERE CAN BE NO IMITATION"

# ACAM INSTRUMENTATION LTD

FOR TRANSDUCERS AND ELECTRONICS



WATER DEPTH

Acam Instrumentation can offer a wide range of pressure transducers to suit a variety of applications as may be found in general industry, medical and military. Employing foil, ceramic or semiconductor technology whichever is appropriate for the specific application.

We can measure water depths from 0.5 to 500 MWG for full range output. Lightning suppression is standard on all ranges. Advanced electronics allows customer rangeable adjustments to be achieved. Output is two wire 4-

ALL DEPTHS

20 mA through a special ruggedised cable. The unit is available in two different sizes being 50 mm and 30 mm diameters. The 50 mm unit is the standard unit available in depth range from 0.5 meters to 500 meters. A higher ost small bore unit of 30 mm diameter allows 10 meters to 500 meters.

Custom designs are available as required.

We have a

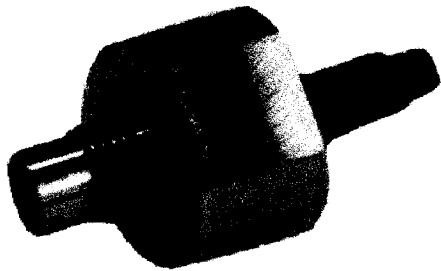
commitment to quality, state of the art technology, and personal service, with over thirty years of specialists experience in sensor and transducer



TYPICAL PRESSURE TRANSDUCER



**Acam Instrumentation Ltd**  
**23 Thomas St**  
**Northampton**  
**NN1 3EN**  
**Tel- 01604 28700**  
**Fax- 01604 28700**



Flush Diaphragm Pressure Transducer

**Acam Instrumentation Ltd**  
**Manufacture A Variety Of**  
**Standard Sensors For The**  
**Measurement Of Load Pressure**  
**Torque and Strain.**  
**Please ask for Details**

**PRESSURE**                      **HIGH**                      **LOW**  
    **10 to 500**                      **0.5 to 500**

Over Pressure	200 %	100 %
Burst Pressure	300 %	
Pressure Media	compatibility with Al <sub>2</sub> O <sub>3</sub> - 304 S/S - Titanium Nitril Rubber - Polyethylene	
Voltage Input d.c	12 to 40 (low power version 7 to 18 volts)	
Output Tolerance	± 0.25 mA (advised on Calibration sheet)	
Non Linearity Hysteresis Repeatability	<0.5% FRO (typical 0.25%) (FRO = Full Range Output)	
Operating Temperature °C	0 - 60 °C	
Temperature Coefficient	0.04% / °C	
Lightning Protection	Yes	
Cable	2 Wire Fully screened	

**SIZE mm**                      **30 x 170**                      **50 x 170**

PRESSURE/DEPTH CHART					
Pressure		Fresh Water Depth ( at 15°C )		Salt Water Depth ( at 15°C )	
Bars	psi	Metres	Feet	Metres	Feet
0.1	1.45	1.020	3.345	0.99	3.248
0.3	2.90	2.039	6.691	1.98	6.296
0.3	4.35	3.059	10.020	2.97	9.744
0.4	5.80	4.078	13.380	3.96	12.990
* 0.5	7.25	5.099	16.730	4.95	16.240
0.6	8.70	6.118	20.070	5.94	19.490
0.7	10.15	7.138	23.420	6.93	22.740
0.8	11.60	8.158	26.760	7.92	25.980
0.9	13.05	9.177	30.110	8.91	29.230
* 1.0	14.50	10.200	33.450	9.90	32.480
1.2	17.40	12.240	40.150	11.88	38.980
1.4	20.31	14.280	46.840	13.86	45.470
1.6	23.21	16.320	53.530	15.84	51.970
1.8	26.11	18.360	60.220	17.82	58.470
* 2.0	29.01	20.390	66.910	19.80	64.960
2.5	36.26	25.490	83.640	24.75	81.200
3.0	43.51	30.590	100.200	29.70	97.440
3.5	50.76	35.690	117.100	34.65	113.700
4.0	58.02	40.790	133.800	39.60	129.900
4.5	65.27	45.890	150.500	44.55	146.200
* 5.0	72.52	50.990	167.300	49.50	162.400
6.0	87.02	61.180	200.700	59.40	194.900
7.0	101.50	71.380	234.200	69.30	227.400
8.0	116.00	81.580	267.600	79.20	259.800
9.0	130.50	91.770	301.100	89.10	292.300
* 10.0	145.00	101.900	334.500	99.00	324.800
15.0	217.50	153.000	501.800	148.50	487.200
20.0	290.10	203.900	669.100	198.00	649.600
* 25.0	362.60	254.800	836.400	247.50	812.000

\* Standard Transducer Range

Registered in England No 1543383

Registered Office: 23 Thomas St Northampton NN1 3EN

V.A.T. No: 314 9529 50