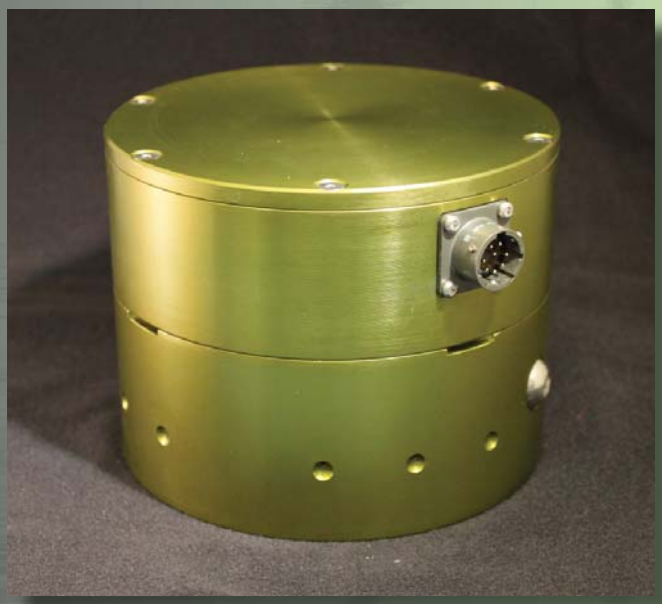
IFS-5000

Seismically Decoupled Infrasound Sensor

Features:

- Modular Design
- Ruggedized Construction
- Pressure and Seismic Output
- Low Power Consumption
- Stable Operation
- Severe Environment Tested
- Multiple Versions for Various Applications
- Sensitivity Selectable at Time of Order
- Excellent Sensor-To-Sensor Matching
- Custom Configurations Available
- Blast Wave Version Available
- Digital and Analog Versions Available



Applications:

- Oil / Gas Exploration
- Geological / Geophysical Research
- Violent Convective Storm Data Collection
- Anthropogenic Signal Collection
- Natural Infrasound Source Data Collection
- Atmospheric Structure / Propagation Study

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SENSOR SPECIFICATIONS (IFS-5100, Standard Configuration)

General		
	Size	Diameter - 152.4mm(6.000") Height - 117.5mm(4.625")
	Weight	4.53kg(10.1 lbs)
	Input Voltage	9-17Vdc
	Power Consumption	~ 1.5w, Configuration dependant
Analog		
	Calibrated Frequency Response	0.001Hz to 1000Hz
	Typical Frequency Response	0.01Hz to 100Hz with less than 3dB variability
	Intrinsic Noise	$<10^{-5}$Pa, full range 100Pa
	Peak Pressure	100kPA, Blast wave configuration
	Temperature Sensitivity	< 0.03%/°C
	Seismic - Pressure Decoupling[1]	29.2 dB
Connector Pinout		
	J1 - PT02E-12-89 mates to PT06E-12-8S(SR)	
		A) Pressure Signal Positive
		B) Acceleration Signal Positive
		C) Acceleration Signal Negative
		D) 9-17 Vdc In
		E) Acceleration Signal Return
		F) Pressure Signal Return
		G) Pressure Signal Negative
		H) Power Return

Sensor Specification are valid as of 18 June, 2013, but are subject to change without notice.

[1]Relative to a standard configuration Hyperion IFS-3000 series sensor.

SENSOR CONFIGURATION MATRIX

IFS-	T	C	O	S	(W)	
						(T) Type
	5					Seismically Decoupled
						(C) Configuration
		0				Shroud Only (No Sensor)
		1				Analog Standard
		2				Digital Standard
		3				Analog Custom
		4				Digital Custom
		5				Analog w/o Line Driver
						(O) Connector
			1			Amphenol PT02E-12-8P
			3			Molex 70553-0110
			4			M12 Connector
			9			Custom
						(S) Shroud
				0		None
				1		HF Shroud
				2		Single Port Tube
				3		Four Port Garden Hose (U.S.)[1]
				4		Four Port Garden Hose (Int'l)[1]
				8		Cap Only (No Port)
				9		Custom
						(W) Wireless Communications
					W	Optional Wireless 802.11[2]

[1] The U.S. version of this shroud ships with 27.0mm (1.0625") OD, 2.209 thread pitch (11.5 TPI) Garden Hose Thread (GHT) male connectors. The International version ships with 26.5mm (0.75") OD, 1.814mm thread pitch (14 TPI) BSP male connectors.

[2] Wireless communication is only available on the digital sensors.