

HIRLEKAR
PRECISION



Electronic Differential Pressure Instruments



IRIS IRP 500

Ranges

Differential Pressure Ranges	Bar: 0.06, 0.4, 1, 2.5, 100 psi: 0.8, 6, 14, 36, 1500
Allowable Static Pressure	upto 400bar (6,000psi)
One-side overload pressure	160bar (2,300psi)

Output Signal

Standard	2-wire: 4-20mA
Supply Voltage	13 to 33VDC
Signal Range	3.8mA to 20.5mA (As per NAMUR NE-43)

Electrical Protection

Short Circuit Protection	Permanent
Reverse Polarity Protection	Built in device

Display

Type	LCD Screen
Display Character Height	17.5mm
Configuration	Through four functional buttons

Performance

Accuracy	upto $\pm 0.075\%$ of FSO Max turndown 100:1
Power Supply Effect	$\pm 0.001\%$ of FSO / 1V
Static Pressure Effect per 100bar	$\pm 0.1\%$ of FSO $\pm 0.15\%$ of FSO for ranges $\leq 60\text{mbar}$
Installation Position Effect	Max. 4mbar (can be compensated by zero-point correction) for ranges $\leq 60\text{mbar}$ please mention installation position on the purchase order
Temperature effect	$\leq \pm 0.1\%$ FSO / 10 K
Stability	$\pm 0.05\%$ of FSO/ year
Permissible Load Resistance	$R_{\text{max}} = [(V_s - 13) / 0.02A] \Omega$
Damping	1 to 10 readings
Response Time	50 msec
Turn ON Time	approx 250msec
CE Conformity	Compliant to: IEC EN61326-1:2020

Accuracy according to IEC 60770 - limit point adjustment (non-linearity, hysteresis, repeatability)



Physical Specifications

Electrical Connection	DIN 42650 Form A solenoid valve connector
Pressure Port Connection	1/4"NPT (Female) <i>Others on request</i>
Drain/ Vent Plug	1/4"NPT (Female) <i>Others on request</i>
Filling Fluid	Silicone Oil Fluorocarbon Oil


Materials

Flange	SS316L
Housing	Aluminum
Drain/ Vent Plug	SS316L
Bolts/ Nuts	SS304
Diaphragm	SS316L, Hastelloy
Seals	Viton™, EPDM, Neoprene, Nitrile
Identification Plate	Plastic
Mounting Brackets	MS/ SS
Media Wetted Parts	Pressure Port, Seal, Diaphragm

Temperature Limits

Ambient (with display function)	-20 to 65°C
Ambient (without display function)	-40 to 85°C
Storage Temperature	-40 to 85°C
Medium Temperature	-40 to 85°C

Pin Configuration

1	+	24VDC Power Supply
2	-	
3	NC	No connection
	Earth	Wire Shield

Also available with direct inline mounting



or without display



Special Characteristics

Machined Aluminum Case

Large LCD Screen with optional backlight

Fast Response Time

Output signal: Linear / Square Root

Output Range: Field Selectable (Turndown)

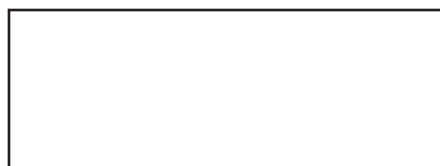


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