



Tel. +39 02 365693 info@danetech.it www.danetech.it

GAGE HEAD RIGHT ANGLE AC LVDT NT-GAR-750 Series

Providing Custom Sensor Solutions

The NewTek GAR Series gage head sensors are spring-loaded AC LVDTs with excellent linearity, high sensitivity and infinite resolution. Construction consists of a stainless steel probe assembly and $\frac{3}{4}$ inch diameter hermetically sealed housing. Electrical connection is made through a radially mounted connector, resulting in a reduced housing length. Designed for a wide range of position measurement and dimensional gaging applications, they are available in ranges of ± 0.50 inch (1.27mm) to ± 2 inches (50mm). The GAR Series windings are potted inside its housing with a 2 component epoxy, providing excellent protection against hostile environments.

Features

- Spring loaded probe
- Radially mounted connector
- Welded 3/4 inch hermetically sealed steel housing
- \bullet Measurement ranges from \pm 0.05 to \pm 2 inches
- Linearity ±0.15% of Full Range Typical
- Shock and vibration tolerant
- Wide operating temperature range (-65°F to 275°F)
- Choice of probe contact tips
- Standard and custom models available

Electrical Specifications

Input Voltage: 3 Vrms (Nominal)
Input Frequency: 400Hz to 10KHz

Linearity: < ± 0.15% Full Range Typical

Null Voltage: 0.5% Full Range

Hysteresis: <0.01% of Full Range Typical Repeatability: <0.01% of Full Range Typical

Applications

- Dimensional gaging
- Factory automation
- Materials testing
- Packaging equipment
- Automotive testing



Environmental Specifications

Operating Temperature: -65°F to 275° F (-55°C to 135°C)

Thermal Coefficient: < -0.01%/°F (< -0.02%/°C) of Full Range

Humidity: 90% R.H., 240 Hours

Shock Survival: 1000 g, 11 ms Vibration: 20 g to 2 KHz

Materials Specifications

Housing: Corrosion-resistant nickel-iron alloy

Core: Hi-permeability nickel-iron alloy

Magnet Wire: Film insulated copper

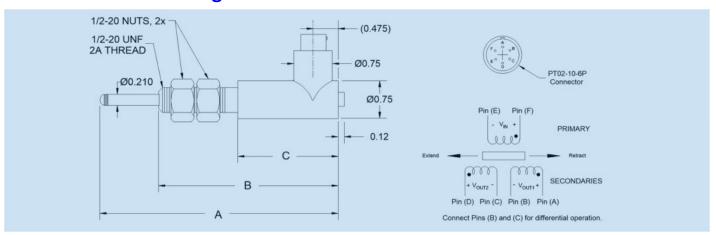
Connector: PT02A-10-6P
Probe: AGD #9 contact tip

NewTek Sensor Solutions, LLC 7300 US Route 130 North, Bld # 7 Pennsauken, NJ 08110-1541 USA Tel: (856) 406-6877 Fax: (856) 406-6578 www.newteksensors.com **Providing Custom Sensor Soluitions**

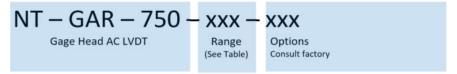
Specifications

Model	NT-GAR-750-	NT-GAR-750-	NT-GAR-750-	NT-GAR-750-	NT-GAR-750-	NT-GAR-750-
Parameter Parame	050	125	250	500	1000	2000
Nominal Range (Inches)	± 0.05	± 0.125	± 0.25	± 0.5	± 1	± 2
Nominal Range (mm)	± 1.27	± 3.0	± 6.3	± 12.5	± 25.0	± 50.0
Sensitivity (mV/V/.001 Inch)	6.3	4.0	2.75	0.70	0.65	0.40
Sensitivity (mV/V/mm)	248	158	108	28	26	16
Primary Impedance (Ω)	330	740	1410	1210	1300	2200
Dimension " A" (inches)	4.62	5.30	6.00	11.00	13.00	21.00
Dimension " B" (inches)	3.50	4.20	5.00	9.00	10.45	16.45
Dimension " C" (inches)	2.00	2.65	3.38	5.85	7.38	10.80
Body Weight (ounces)	2.7	3.3	3.6	5.6	7.0	11.0
Body Weight (grams)	77	94	102	159	198	312

Dimensions and Wiring



Ordering Info



Notes

- Electrical specifications measured at 3KHz excitation frequency.
- Additional options available (alternate contact tips, high temperature, mild radiation tolerant etc.). Please consult factory for custom designs.
- Specifications subject to change.

Warranty

NewTek products are warrantied against defective materials and workmanship for a period of one year from the date of delivery to the original purchaser. NewTek accepts no liability for damages in the misuse of our products.



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