

# GCT Series

**GCT Series** is available in four different ranges from 0 to .250-inch, to 0 to 2.0-inches. This ruggedized two wire loop powered gage head is designed for harsh environments with its hermetically sealed stainless steel, housing and MS style connector. The .750" OD body can withstand up to 1000 psi of external pressure and is capable of operation completely submerged in fluid.

The loop powered, 2-wire GCT series Gaging transmitter is ideal for difficult industrial environments and remote locations where sensor power is not readily available and long cable runs are expected. The 4-20mA signal is less susceptible to EMI and RFI interference than low amplitude AC or DC position signals.

The spring loaded plunger and mounting system provide for simple installation in most applications. Utilizing LVDT technology, the GCT gage head resolution exceeds the excellent bearing repeatability of better than 1 micron.



## FEATURES

- 4-20 mA, two wire operation
- < 0.5% Linearity
- All Welded Construction
- Spring Extend
- Self Contained Electronics
- Reverse Polarity Protection
- Intrinsic safety approval through Factory Mutual is Pending

## APPLICATIONS

- Bridge Expansion Monitoring
- Pipeline Vibration Monitoring
- Valve Position
- Compressor Feedback
- Ideal for noisy environments

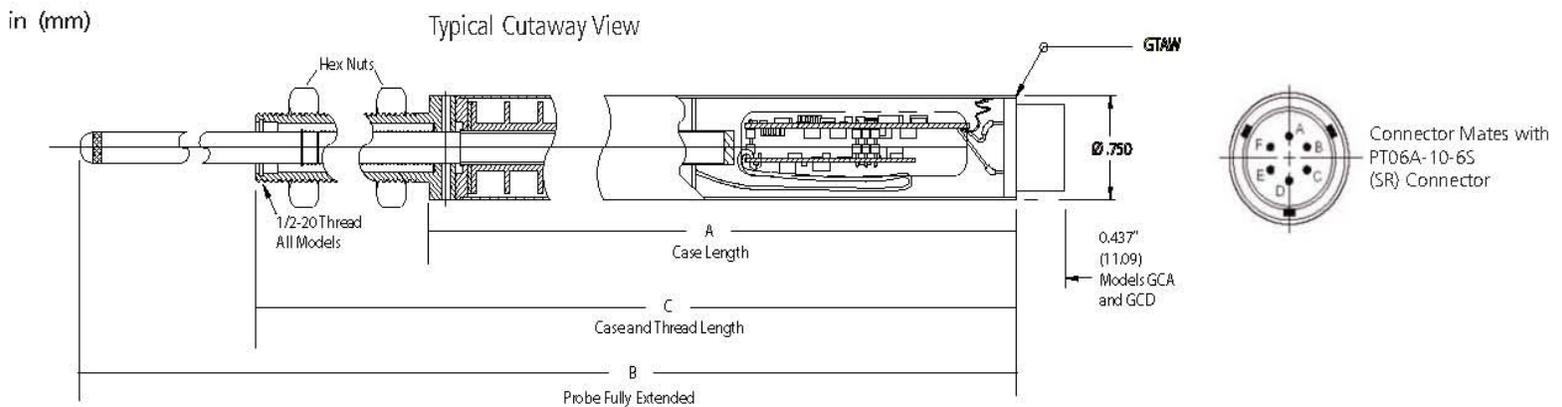
## OPTIONS

- Mating Connector
- Special Contact Tips
- Air Extend version is available

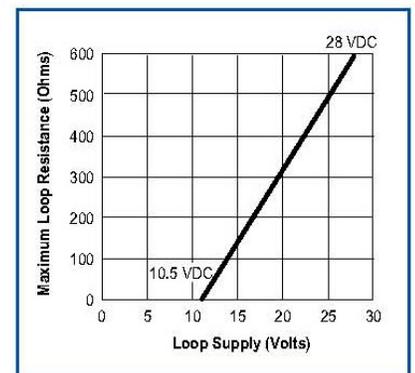
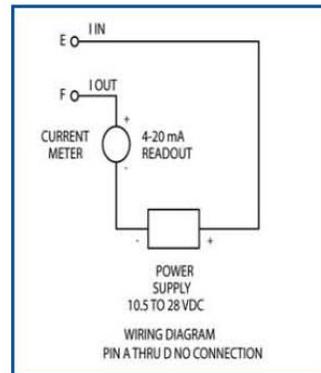
## Mechanical Specifications

<b>Linear Range</b>	0-0.25", 0.50", 1.0" and 2.0"
<b>Linearity</b>	±0.5% of the Full Range
<b>Repeatability</b>	<25 micro inches
<b>Output</b>	4-20 mA, two wire loop
<b>Loop Supply</b>	12.75 to 28 VDC
<b>Maximum Loop Resistance</b>	600 OHMs @ 28 VDC
<b>Output Noise and Ripple</b>	25 µA rms (max)
<b>Operating Temperature Range</b>	-13F to 185F (.25C to 85C)
<b>Coefficient of Sensitivity</b>	0.04%/C (max)
<b>Stability</b>	0.10% after 30 minute warm up
<b>Frequency Response</b>	50 Hz (nominal – 3dB) electrical / 10 Hz Mechanical
<b>Termination</b>	6-pin hermetically sealed MS connector
<b>Housing Material</b>	AISI 400 series stainless steel

## dimensions



MATRIX TABLE							
P/N	MODEL	RANGE	DIM A	DIM B	DIM C	PRETRAVEL	OVER TRAVEL
72350000-000	GCT-121-250	0-.250"	4.66 (118.36)	6.03 (153.16)	7.06 (179.32)	.20	.25
72350001-000	GCT-121-500	0-.500"	5.79 (147.06)	7.15 (179.07)	8.18 (207.77)	.20	.50
72350002-000	GCT-121-1000	0-1.000"	7.20 (182.88)	10.17 (258.32)	12.65 (321.31)	.20	1.00
72350003-000	GCT-121-2000	0-2.000"	9.45 (240.03)	14.94 (379.47)	17.40 (443.48)	.20	2.00



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