

GCT-485 DigiSense Gage Head is

available in five bipolar measurement ranges, with standard strokes from ± .050 inches to ±1.0 inch. The single ended 8.5 to 30.0 volt dc input and two-wire, addressable RS-485 output, make the GC-485 ideally suited to factory automation applications. Direct digital output eliminates the need for expensive and error prone analog to digital conversion. The sensor signal is scaled into calibrated engineering units, by the internal microprocessor, using factory computed conversion tables, thus providing a traceable measurement without need of an on-site calibration. A certificate of calibration is shipped with every sensor.



FEATURES

- .05% Linearity
- Up to 32 Sensors on one 2-wire network
- 100% Interchangeability without Calibration
- Hermetically Sealed Design
- MOD-Bus ASCIIand RTU Output
- Factory Calibrated English or Metric Units
- Programmable Filtering
- Tare and Un-Tare
- Min, Max, and TIR
- Velocity Output

APPLICATIONS

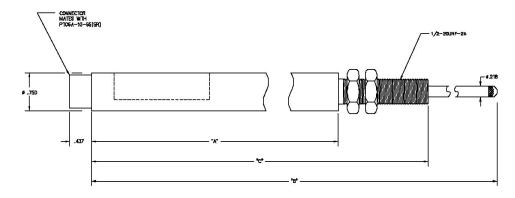
- Roller Gap Control
- In-Process Wet Grinding
- Handheld Gages
- X-Y Positional Feedback

OPTIONS

- Special Contact Tips
- Special OEM Protocols
- Mating Connector
- Air Extend

dimensions

in (mm)



wiring

WIRING				
POWER IN	E			
COMMON	D			
A	A			
В	В			



Specifications

GC-485	Specifications
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Model Number Gaging Range	GC-485-050 +/- 0.050" +/- 1.27mm	GC-485-125 +/- 0.125" +/- 3.175 mm	GC-485-250 +/- 0.250 " +/- 6.85 mm	GC-485-500 +/- 0.500 " +/- 12.7 mm	GC-485-1000 +/- 1.000" +/- 25.4 mm
Pretravel	0.25" (6.35 mm)	0.28" (7.1 mm)	0.18" (4.5 mm)	0.20" (5.08 mm)	0.10" (2.5 mm)
Overtravel	0.31" (7.87 mm)	0.29" (7.4 m)	0.03" (0.8mm)	0.35" (8.9 mm)	0.10" (2.5mm)
Dimensions					
Α					
Inches	4.06	4.90	5.76	7.46	9.42
Millimeters	103.1	124.5	146.3	189.5	239.2
В					
Inches	6.48	7.30	8.16	12.93	14.87
Millimeters	164.6	185.4	207.3	328.4	377.6
С					
Inches	5.42	6.27	7.13	10.45	12.41
Millimeters	137.7	159.3	181.1	265.4	315.2

Input Voltage 8.5 to 30 Vdc Input Current 50 mA (Nominal) Operating Temperature -13F to 185F (-25C to 85C) Storage Temperature -65F to 200F (-55C to 95C) Native Protocols ModBus RTU RS-485 Mod Bus ASCII Omega I-Series Output (units) Metric & English Linearity 0.05% full range Resolution 15-bit (minimum) Repeatability 25 µ-in Stability 0.1% at full range T/C of Scale Factor 0.025% /F max (0.05% /C max) Shock Survival 250g for 11 mS Vibration Tolerance 10g up to 2 kHz TIG Welded (400 Series Stainless Steel) **Housing Construction Environmental Protection** IP-68 (To 68-BAR) Termination 6-Pin MS Style Hermetic Connector

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ordering information

Part Number	Model
02351011-000	GC-485-050
02351012-000	GC-485-125
02351013-000	GC-485-250
02351014-000	GC-485-500
02351015-000	GC-485-1000