

GC-485

Ultra Precision Digital I/O Gage Head

DESCRIPTION

GC-485 DigiSense™ Gage Head is available in five bipolar measurement ranges, with standard strokes from $\pm .050$ 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 ASCII & RTU Output
- ◆ Factory Calibrated English or Metric Output
- ◆ Programmable Filtering
- ◆ Velocity Output
- ◆ Built-in Tare & Un-Tare
- ◆ Built-in Min, Max & TIR
- ◆ Velocity Output

APPLICATIONS

- ◆ Roller Gap Control
- ◆ In-Process Wet Grinding
- ◆ Hand Held Gages
- ◆ X-Y Positional Feedback

OPTIONS

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

specifications

Input Voltage	8.5 to 30 V dc.
Input Current	50 mA. nominal.
Operating Temp.	-13°F to 185°F (-25°C to 85°C)
Storage Temp.	-65°F to 200°F (-55°C to 95°C)
Native Protocols (RS-485)	ModBus RTU ModBus ASCII Omega I-Series
Output (units)	Metric & English
Linearity \leq	0.05% full range
Resolution	15-bit (minimum)
Repeatability \leq (subject to resolution)	25 μ -inch
Stability	0.1% full range
T/C of scale factor	0.025% /F° max (0.05% /C° max)
Shock Survival	250 g for 11 mS
Vibration Tolerance	10 g up to 2 kHz.
Housing Construction	TIG welded 400 series stainless steel
Termination	6-pin MS style hermetic connector

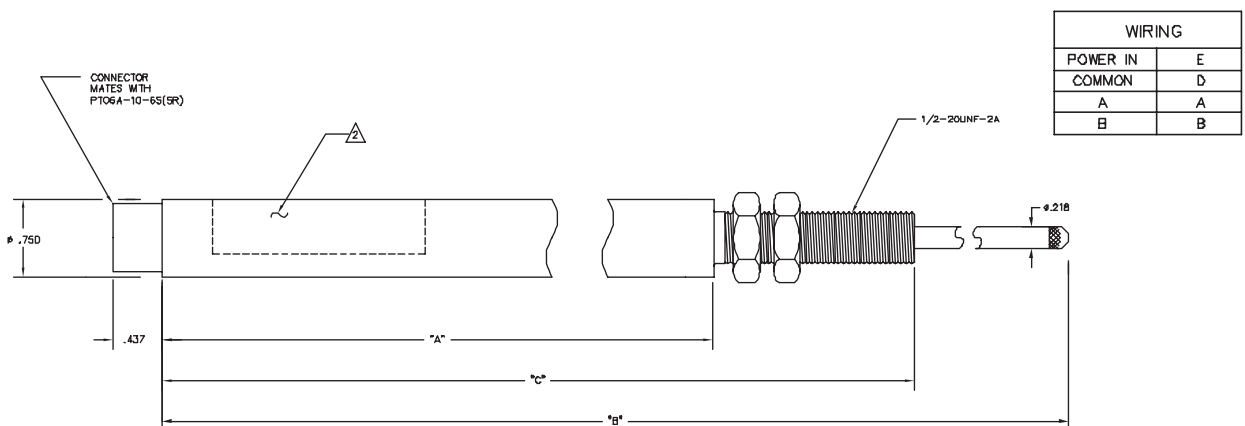
GC-485

GC-485 specifications

Model Number	GC-485-050	GC-485-125	GC-485-250	GC-485-500	GC-485-1000
Gaging Range	+/-0.050"	+/-0.125"	+/-0.250"	+/-0.500"	+/-1.000"
	+/- (1.27mm)	+/- (3.175mm)	+/- (6.85mm)	+/- (12.7mm)	+/- (25.4mm)
Pretravel (Nominal)	0.25" (6.35mm)	0.28" (7.1mm)	0.18" (4.5mm)	0.20" (5.08mm)	0.10" (2.5mm)
Overtravel (Min.)	0.31" (7.87mm)	0.29" (7.4mm)	0.03" (0.8mm)	0.35" (8.9mm)	0.10" (2.5mm)
Dimensions					
A (± 0.01 "/0.25mm)	4.06" (103.1mm)	4.90" (124.5mm)	5.76" (146.3mm)	7.46" (189.5mm)	9.42" (239.2mm)
B (± 0.03 "/0.76mm)	6.48" (164.6mm)	7.30" (185.4mm)	8.16" (207.3mm)	12.93" (328.4mm)	14.87" (377.6mm)
C (± 0.02 "/0.50mm)	5.42" (137.7mm)	6.27" (159.3mm)	7.13" (181.1mm)	10.45" (265.4mm)	12.41" (315.2mm)

dimensions

in (mm)



ordering information

Part Number	Model	Dimensions (in)			Pre Travel (Nominal)	Over Travel (Minimum)
		A	B	C		
02351011-000	GC-485-050	4.06	6.48	5.42	0.25	0.31
02351012-000	GC-485-125	4.90	7.30	6.27	0.28	0.29
02351013-000	GC-485-250	5.76	8.16	7.13	0.18	0.03
02351014-000	GC-485-500	7.46	12.93	10.45	0.20	0.35
02351015-000	GC-485-1000	9.42	14.87	12.41	0.10	0.10

Distribuidor

Brasil e América do Sul

CONTATO

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