

REBAR STRAIN GAUGE

GA-RSG



Highlights

GeoAnts rebar strain gauge is a resistive type of strain gauge that provides accurate and reliable measurements of stress and strain levels in various construction applications, such as concrete piles, tunnel linings, mass concrete structures, diaphragm walls, and barrettes. It is a robust and durable product that can withstand harsh environments, making it an ideal choice for geotechnical engineers.

The installation of the rebar strain gauge is a straightforward process. It involves securing the gauge to the existing reinforcement rebar system in a predetermined location by bolting, welding, or tying it in place. It is important to secure only the rebar sections of the strain gauge and not the gauge section itself to ensure accurate and reliable measurements during pile load testing. Once the gauge is securely in place, it can be connected to a data acquisition system for monitoring. The sister bar strain gauge is available in different sizes and configurations to fit various applications, and it is easy to customize and adapt to specific project requirements.

In this spec sheet document, we will provide detailed technical specifications, features, and performance characteristics of the rebar strain gauge. We will also discuss its applications and advantages in pile load testing to help geotechnical engineers make informed decisions about the use of this product in their projects.

Features

- Impact resistant cable connection thanks to epoxy molding
- Stable measurement in harsh conditions
- Dynamic measurement possibility
- Waterproof
- Corrosion resistance
- Unaffected by voltage supply sourced temperature

Applications Area

- Pile Load Testing
- Concrete Piles
- Tunnel Linings
- Mass concrete structures
- Diaphragm walls and barrettes

Cautions

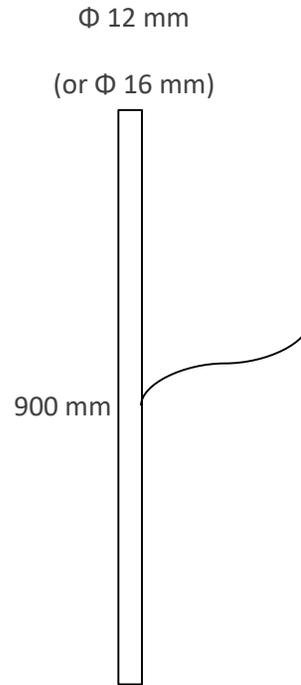
In case the change of concrete stress is measured by laying the mass concrete, the signal cable can be prevented from being damaged by placing an expansion tube in the signal cable.

Technical Specifications

Sensor Type	Rebar Strain Gauge	Recommended Excitation Voltage	(4-10) V
Measuring Range	3000 $\mu\epsilon$ ($\pm 1500 \mu\epsilon$)	Working Temperature	-25 °C - 80 °C
Output Rate	2 mV/V	Waterproof	IP68
Accuracy	$\pm 0.8\%$ F.S	Weight	800 g
Nonlinearity Rate	$\pm 2.0\%$ F.S	Material	ST37 Galvanized Steel
Length	900 mm (± 0.01 mm)	Resistance	350 Ω

*F.S: Full Scale

Dimensions



Geodestek Ltd., ODTÜ Teknokent Gümüş Blok, K1-12, Çankaya, Ankara, TÜRKİYE

www.geodestek.com

www.geoants.com

geoants@geodestek.com

t +90 (552) 350 1399