

GTI-E210-S

Pad-type Soil Pressure Transducer



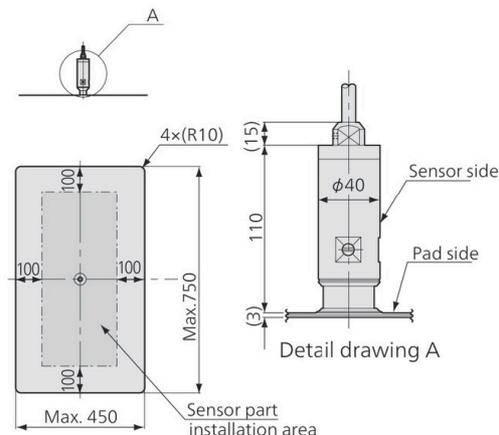
Accurate soil pressure measurement averaged over a wide surface area

- Rated capacity: 500 kPa, 1 MPa
- No box cutting or cross-sectional loss in segment required to attach sensor
- Attachable to curves
(Please contact us for details)

These soil pressure transducers are designed to accurately measure earth or backfill pressure on the segment surface averaged over a wide surface area using the shield method, by attaching the pressure sensing surface based on the curve of the segment.

*These earth-pressure cells were jointly developed with Geo-Research Institute.

■ Dimensions



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Rated Output	1 mV/V or more

Environmental Characteristics

Safe Temperature	0 to 70°C
Compensated Temperature	0 to 60°C
Temperature Effect on Zero	Within $\pm 0.1\%$ RO/°C ¹
Temperature Effect on Output	Within $\pm 0.1\%$ /C ¹

Electrical Characteristics

Safe Excitation	10 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.5 mm ²) chloroprene cable, 11.5 mm diameter by 5 m long, bared at the tip

Mechanical Properties

Safe Overloads	150%
Exterior	Anti-rust coating, metallic steel texture surface
Degree of Protection	IP68 (JIS C 0920/IEC 60529) (Safe overloads)

Other

Applicable Ground Material Soft cohesive soil

*1 Characteristics for sensor itself

*Specifications and design are subject to change without notice.

*Please contact us for information on product warranties.

■ Models

Model	Rated Capacity
GTI-E210-500KPS	500 kPa
GTI-E210-1MPS	1 MPa

*Can be made with specified sensor attachment position dimensions and external dimensions. Please contact us.

To Ensure Proper Usage

- This device is made from thin metal plates. Do not allow it to come into contact with sharp objects or corners.
- A mounting jig is required to attach this sensor.

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Sensor



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor