Small High-response Low-capacity Single-axis Acceleration Transducer

ARGL-100A

MEMS-based acceleration transducer compatible with

DC-exciting dynamic strain meter



Features

- Small and light-weight
- Wide frequency response range
- Dedicated to single-axis measurement
- Allowable overload is larger than that of strain gauge type acceleration transducer
- Measurement possible from DC level
- No need of external power supply; Measured just being connected to an instrument
- Output level equal to a strain gauge type acceleration transducer obtained by the built-in amplifier

Applicable instruments

To be used in strain input with bridge excitation of 2V.

- Strain Full bridge unit (TMR-321)
- Strain 1G2G4G unit (TMR-322)
- Smart Dynamic Strain Recorder (DC-204R/DC-204Ra)
- PC control Dynamic Strainmeter (DC-004P)
- Handheld Dynamic Strainmeter (DH-14A)
- T-ZACCS3 Pocket Load Meter (MM-014L)

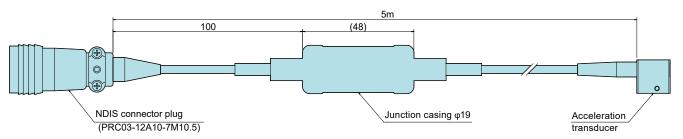
Specifications

Туре	ARGL-100A
Capacity	100m/s² (10.2G)
Rated output	Equivalent to 800×10 ⁻⁶ strain±15%
Non-linearity	2%RO
Frequency response range	DC ~ 200 Hz (sensitivity deviation ±5%)
Allowable temperature range	-10 ~ +60°C
Allowable overload	20000m/s ²
Allowable exciting voltage	DC2.0 ~ 3.6V
Current consumption	20mA MAX (DC2V)
Weight	Approx. 10 g
Protection ratings	Equivalent to IP61
Input/Output cable	3.2mm dia. 0.08mm ² 4-core shielded vinyl cable 5m, NDIS plug attached on the end

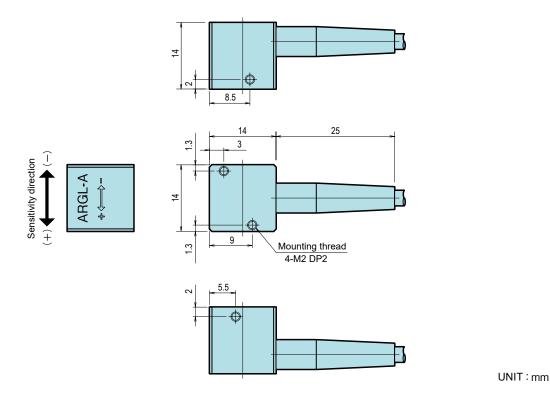


External dimensions

Overall view



Sensor part



Extension distance

When an applicable instrument is used, it is possible to extend the cable between the instrument and the NDIS connector plug. The maximum extension length is 40 meters by the use of exclusive cable (CR-800).



Approval Certificate **ISO9001**Design and manufacture of strain gauges, strain measuring equipment and transducers

The contents of this catalog are subject to change without prior notice. The contents of this catalog are as of July 2020.



Tokyo Measuring Instruments Lab.

株式会社東京測器研究所 (URL) www.tml.jp

8-2, Minami-ohi 6-chome, Shinagawa-ku, Tokyo 140-8560, JAPAN TEL: +81-3-3763-5614 FAX: +81-3-3763-5713

