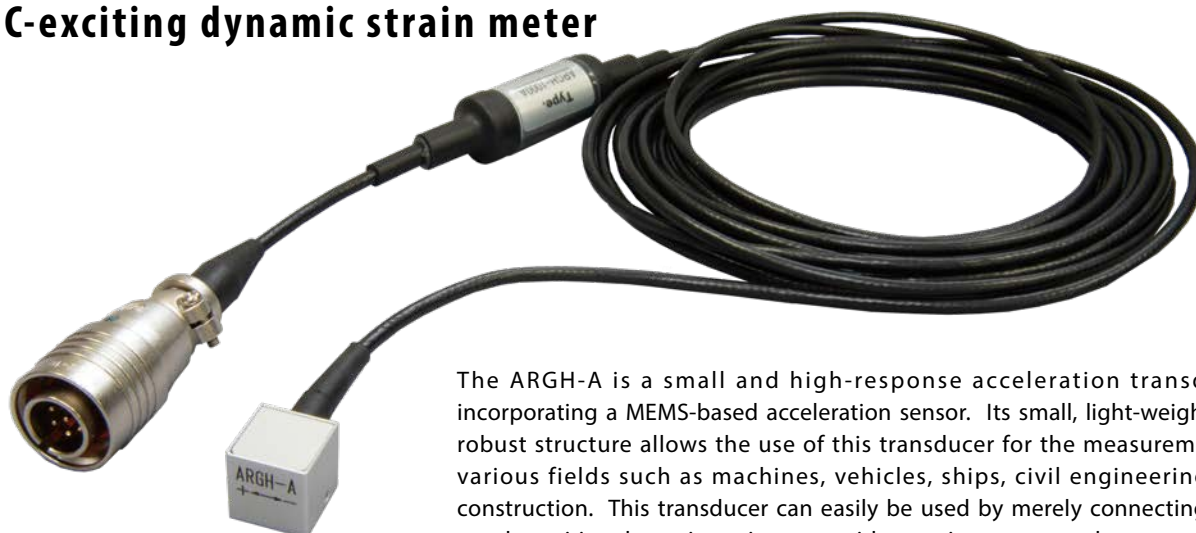


Small High-response High-capacity Single-axis Acceleration Transducer

ARGH-1000A**MEMS-based acceleration transducer compatible with DC-exciting dynamic strain meter**

The ARGH-A is a small and high-response acceleration transducer incorporating a MEMS-based acceleration sensor. Its small, light-weight and robust structure allows the use of this transducer for the measurement in various fields such as machines, vehicles, ships, civil engineering and construction. This transducer can easily be used by merely connecting it to our dc-exciting dynamic strain meter without using an external power supply.

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)

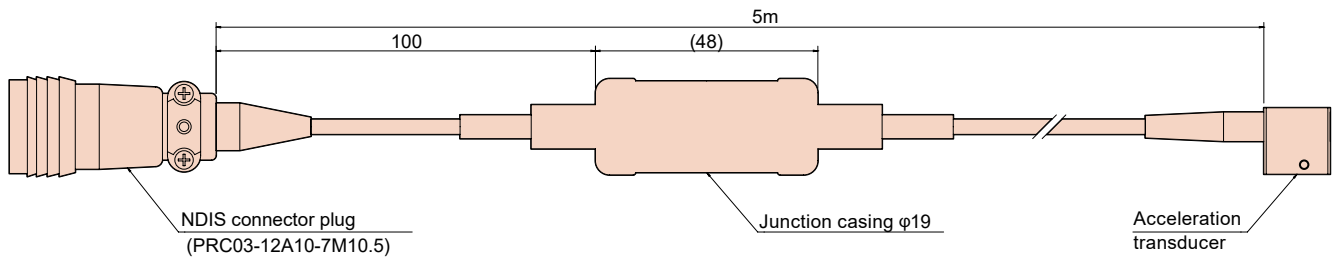
Specifications

Type	ARGH-1000A
Capacity	1000m/s ² (102G)
Rated output	Equivalent to 1800×10 ⁻⁶ strain±10%
Non-linearity	2%RO
Frequency response range	DC ~ 2 kHz (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

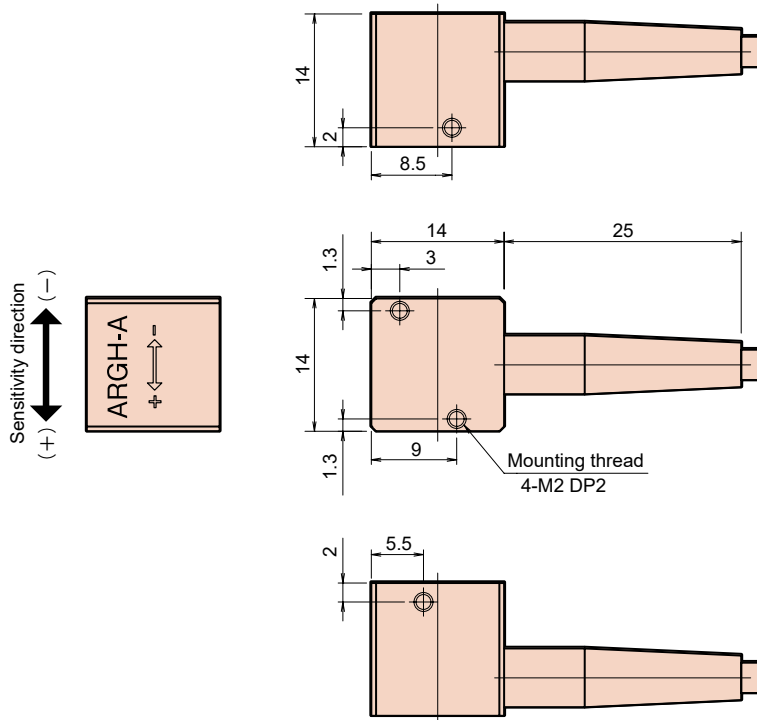


External dimensions

Overall view



Sensor part



UNIT : mm

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).

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