



AW series (AWH/AWHU)

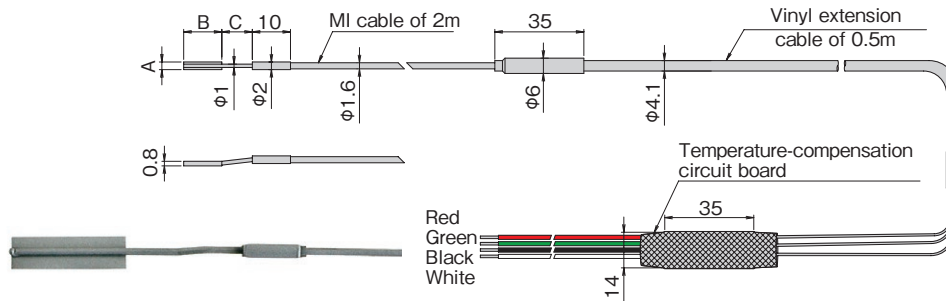
AWH-4 / AWH-8

The backing material of these gauges is available in either of Inconel 600 or stainless steel to be selected according to the material to be measured. The sensing part has half bridge configuration with active element and dummy element, and it is measured in full bridge method using the attached temperature compensation circuit board. This gauge is applicable to static measurement in temperature up to 600°C and applicable to dynamic measurement up to 650°C.

Type	Gauge length (mm)	Gauge base		Operating temperature (°C)	Temperature compensation range (°C)	Test specimen	Applicable coefficient of linear thermal expansion ($\times 10^{-6}/^{\circ}\text{C}$)	Resistance in (Ω)
		Dimension (mm)	Materials					
AWH-4-7A-2-11.0	4	L10xW3xT0.8	Inconel 600	static : -196~+600°C dynamic : -196~+650°C	static : RT~+600°C dynamic : N/A	Mild steel equivalent	$11 \times 10^{-6}/^{\circ}\text{C}$	60
AWH-4-7B-2-17.0			SUS304			SUS304 equivalent	$17 \times 10^{-6}/^{\circ}\text{C}$	
AWH-8-7A-2-11.0	8	L16xW5xT0.8	Inconel 600			Mild steel equivalent	$11 \times 10^{-6}/^{\circ}\text{C}$	
AWH-8-7B-2-17.0			SUS304			SUS304 equivalent	$17 \times 10^{-6}/^{\circ}\text{C}$	

Leadwire 1.6 mm dia. MI cable 2 m, 4.1 mm dia. shielded vinyl cable 0.5 m (Full bridge)
Minimum order quantity is 1 strain gauge.

External dimensions



Type	A	B	C
AWH-4	3	10	8
AWH-8	5	16	16

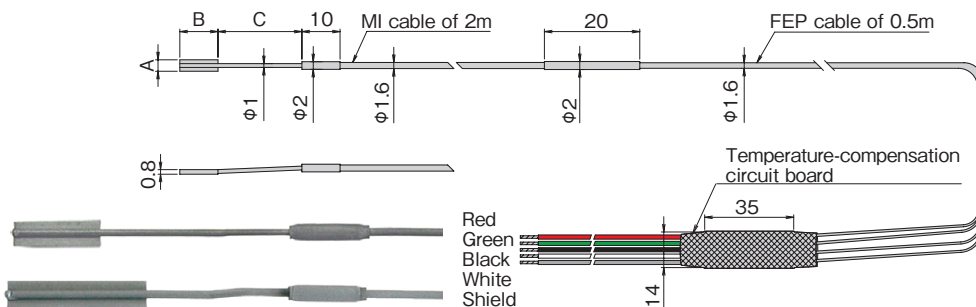
AWHU-5 / AWHU-8

These gauges can be used in temperature up to 800°C for both static and dynamic measurement. However, owing to the construction of the sensing element, measurement is recommended in temperature at 600°C or above. The sensing part has half bridge configuration with active element and dummy element, and it is measured in full bridge method using the attached temperature compensation circuit board. Since these gauges have small backings and thin sleeves and cables as standard specifications, they are applicable to narrow and/or curved areas.

Type	Gauge length (mm)	Gauge base		Operating temperature (°C)	Temperature compensation range (°C)	Test specimen	Applicable coefficient of linear thermal expansion ($\times 10^{-6}/^{\circ}\text{C}$)	Resistance in (Ω)
		Dimension (mm)	Materials					
AWHU-5-9AKM-2(6F)-12.7	5	L10xW3xT0.8	Inconel 600	For static/dynamic use -196~+800°C	Room-temperature ~ +800°C	Inconel 600 equivalent	$11 \times 10^{-6}/^{\circ}\text{C}$	60
AWHU-8-9AKM-2(6F)-12.7	8	L16xW3xT0.8						120

Leadwire 1.6 mm dia. MI cable 2 m, 1.6 mm dia. shielded fluorinated resin (FEP) cable 0.5 m (Full bridge)
Minimum order quantity is 1 strain gauge.

External dimensions



Type	A	B	C
AWHU-5	3	10	22
AWHU-8	3	16	16

Note

Our AWH and AWHU series strain gauges are adjusted to make the thermal output as small as possible in consideration of the material to be measured, the MI cable length and the range of measurement temperature. These strain gauges will be supplied on made-to-order basis except AWH-4-7A-2-11.0 and AWH-8-7A-2-11.0.

* Lead wire lengths other than the standard length are available on request. (Made to order: MI cable length is in increments of 1 meter. Vinyl cable length is in increments of 0.5 meters.)