

Weldable strain gages are applicable to static/dynamic strain measurement at temperature up to 950°C.

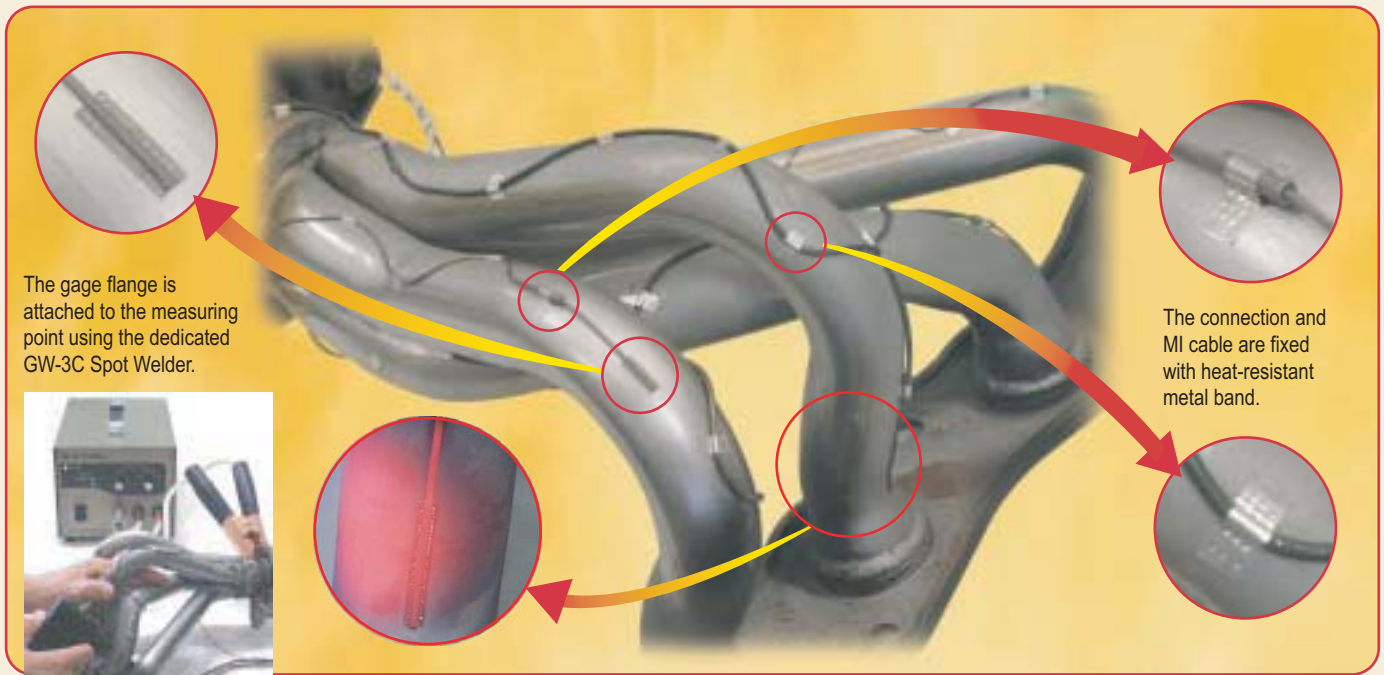
The gage elements are encapsulated in a heat-resistant metal tube that can be spot-welded to a measuring point. The heat-resistant MI cable which contains leadwires is laid in the heat-affected zone. Thus, these gages enable strength tests of devices operating at high temperatures. The gages are connected to a data logger or dynamic strain amplifier using the soft cable equipped with a bridge adapter.



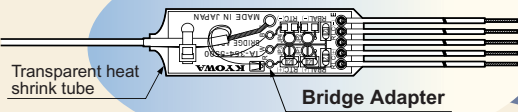
Models and Typical Applications

Model	KCW	KHC	KHCM	KHCS	KHCD	Please ask Kyowa.					
Max. operating temperature (°C/°F)	100/212	500/932	650/1202	750/1382	800/1472	950/1742					
Static strain measurement	Yes	Yes	Yes	Yes	—	Yes					
Dynamic strain measurement	Yes	Yes	Yes	Yes	Yes	Yes					
Structure 2-gage half bridge	—	Yes	Yes	Yes	—	Yes					
1-gage quarter bridge	Yes	—	—	—	Yes	—					
Temperature compensation	Yes	Yes	Yes	Yes	—	Yes					
Typical applications	Operating temperature (°C)										
Energy	100	200	300	400	500	600	700	800	900	1000	
High-temperature gas turbine blades											
High-temperature gas furnace											
Nuclear reactor cooling water pipes (sodium)											
Nuclear reactor peripherals											
High-speed breeder reactors											
Thermal electric power plant heat exchangers											
Boiler steam turbines											
Nuclear fuel rods											
Nuclear plant cooling pipes (pure water)											
Gas turbine combustors											
Thermal electric power plant boiler pumps											
Plants & Large-Scale Structures											
Petrochemical reactors											
Heat treat furnaces											
Incinerators											
Steelmaking furnace peripherals											
Fire resistant tests of reinforced concrete structures											
Large-scale plant piping											
Underwater marine structures											
Underwater tests of reinforced structures											
Transports											
Marine engines											
Aircraft jet engine turbines											
Automotive exhaust manifolds											
Automotive exhaust turbines											
Automotive exhaust mufflers											
Automotive exhaust valves											
Automotive cylinder heads											
Automotive pistons											
Automotive suction blowers											
Car bodies (cold districts)											
Operating temperature (°F)	212	392	572	752	932	1112	1292	1472	1652	1832	

Application Example



The soft cable is connected to a measuring instrument via a preattached bridge adapter or a separate dedicated adapter.



Static Measurement



Data Logger UCAM-60A

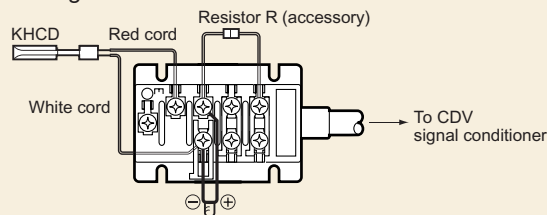
Dynamic Measurement



Memory Recorder/Analyzer EDX-2000A

Notes:

1. All KYOWA weldable strain gages are equipped standard with an MI cable 2m long and a soft cable 0.5m long. These cables can also optionally be extended to a desired length.
2. For the 1-gage quarter-bridge KHCD, dedicated DB-120A/L bridge boxes are available for connection to the CDV-700A signal conditioner



Bridge Box DB-120A/L for KHCD



Specifications are subject to change without notice for improvement.



Safety precautions

Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

Reliability through integration



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