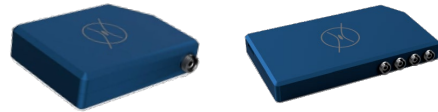


FISENS® FBG INTERROGATOR & SENSOR CHAIN QUICK GUIDE



MODEL	FBGX100 Interrogator	FBGX400 Interrogator	FI Sensor Chain Bare Fiber Capillary	PE Sensor Chain PEEK Capillary	SI/AC Sensor Chain SI=Silica, AC=Al Ceramic	SSC Sensor Chain Stainless Steel Capillary
Description	Compact Interrogator	Compact Interrogator	Bare Fiber, SM800 P=Polyimide-coated A=Acrylate-coated	Bare Fiber mounted in PEEK tubing	Bare Fiber mounted in Silica or Alumina Ceramic Capillary Tube	Bare Fiber mounted in Stainless Steel Capillary Tube
No. of Channels	1, Wideband (W)	4, Wideband (W)	1	1	1	1
Measurement	Temperature, °C Strain, $\mu\epsilon$	Temperature, °C Strain, $\mu\epsilon$	Temperature and Strain	Temperature and Strain	Temperature	Temperature
Precision	0.1-1°C or 1-10 $\mu\epsilon$ depending on sample rate	0.1-1°C or 1-10 $\mu\epsilon$ depending on sample rate	Sensor Configurations: A-n-W-GL-FI P-n-W-GL-FI UHS-n-W-GL-FI	Sensor Configurations: A-n-W-GL-PK P-n-W-GL-PK	Sensor Configurations: P-n-W-GL-SI UHT-n-W-GL-SI UHT-n-W-GL-AC	Sensor Configurations: P-n-W-SST-SSC UHT-n-W-SST-SSC
# of FBGs per Sensor (n)	1-30	1-30	1-30	1-30	1-30	1-30
Sample Rate/channel	1-100Hz	1-100Hz	Min FBG spacing=2mm Max length=500m	Min FBG spacing=2mm Max cap length=10m	Min FBG spacing=2mm Max cap length, SI=2m, AC=1m	Min FBG spacing=2mm Max cap length=3m
Operating Temperature	0°C to +60°C	0°C to +60°C	Capillary Section: For A: -40°C to +80°C For P: -40°C to +300°C For UHS: -250°C to +300°C	Capillary Section: For A: -40°C to +80°C For P: -40°C to +300°C	Capillary Section: For P: -40°C to +300°C For UHT: -250°C to +800°C	Capillary Section: For P: -40°C to +300°C For UHT: -250°C to +800°C
Applications	Laboratory or Embedded OEM	Laboratory or Embedded OEM	General purpose. Supports temperature and strain measurements. FBGs must be strain-relieved for temp.	Flexible tubing provides protection of internal FBGs, as required by specific applications.	Provides strain-relieved, semi-rigid temperature probe for measurements to +800°C.	Provides strain-relieved, rigid temperature probe, well-suited for high temp measurements to +800°C.
Electrical Interface	UART and microUSB	UART and microUSB	---	---	---	---
Optical Interface	FC-APC	FC-APC	FC-APC	FC-APC	FC-APC	FC-APC
Power Supply	+5VDC or USB	+5VDC or USB	---	---	---	---
STOCK PRODUCTS	FBGX100	FBGX400	Available for initial engineering evaluation: FBG-MR0050, 1-FBG FBG-MR0010, 10-FBG Or ordered per customer-specified configuration	Ordered per customer-specified configuration	Ordered per customer-specified configuration	Ordered per customer-specified configuration

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All specifications are subject to change without notice

P=Polyimide-Coated Fiber, A=Acrylate-Coated Fiber (rated -40C to +80C)
UHS=Ultra High Strength, Pure Silica Core Fiber with No Coating
UHT= Ultra High Strength, Pure Silica Core Fiber with Polyimide Coating

98-FISN-06-A

[QR Code to FBGs](#)



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