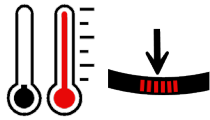


BRAGG TEMPERATURE PROBES™ & 850NM FBG INTERROGATOR QUICK GUIDE

MODEL



**FBGX100
FBGX400**



B Distance
Parameter

Example:
B=2000-90-10

Capillary Type	Interrogators	FI Sensor Chain Bare Fiber Capillary	PK Sensor Chain PEEK Capillary	SI Sensor Chain Silica Capillary	SSC Sensor Chain Stainless Steel Capillary	AC Sensor Chain Alumina Ceramic Capillary
Description (Capillary Description)	Compact FiSpec 850nm Interrogator, Wideband (W)	Bare Fiber, SM800, Flexible, A or P fiber only	Non-metallic, flexible PK1= Ø 0.55mm PK2= Ø 0.95mm Max 350°C	Non-metallic SI= Ø 0.44mm Max 350°C	Metallic SSC= Ø 1mm Max 600°C	Non-metallic AC= Ø 3.3mm Max 800°C
No. of Channels (Software Provided)	FBGX100=1 Ch FBGX400=4 Ch	Visualize and log data for all channels and all interrogators with supplied Multi-Channel FBG-Interrogator Software				
Measurement	Temperature, °C Strain, µε	Temperature or Strain	Temperature or Strain	Temperature	Temperature	Temperature
Precision (Sensor A Configuration)	0.1-1°C or 1-10µε depends on sample rate	Sensor Array A Configuration: A= A-n-W-GL-FI A= P-n-W-GL-FI	A-n-W-PK2-PK2 P-n-W-PK2-PK2	A-n-W-PK2-SI P-n-W-PK2-SI UHT-n-PK2-SI	P-n-W-PK2-SSC P-n-W-SST-SSC UHT-n-W-PK2-SSC UHT-n-W-SST-SSC	P-n-W-PK2-AC P-n-W-SST-AC UHT-n-W-PK2-AC UHT-n-W-SST-AC
# of FBGs per Sensor (n)	1-30	n= 1-30	n= 1-30	n= 1-30 for A or P n= 1-10 for UHT	n= 1-30 for P n= 1-10 for UHT	n= 1-30 for P n= 1-10 for UHT
Sample Rate/channel (Min Capillary Length)	1-200Hz	Min FBG spacing=2mm Max length=500m	Min spacing=2mm Min cap length=20mm	Min spacing=2mm Min cap length= 50mm	Min spacing=2mm Min cap length= 100mm	Min spacing=2mm Min cap length= 100mm
Operating Temperature (Capillary Section)	0°C to +60°C	Capillary Section: A= -40°C to +80°C P= -40°C to +300°C	A= -40°C to +80°C P= -40°C to +200°C	A= -40°C to +80°C P= -40°C to +300°C UHT= -40°C to +350°C	P= 250°C to +300°C UHT= -250°C to +600°C	P= 250°C to +300°C UHT= -250°C to +800°C
Applications	Laboratory or Embedded OEM	General purpose, FBGs must be strain-relieved for temperature measurements.	PEEK tubing provides flexible fiber protection for strain or temp.	Ideal for induction heating or microwave oven/reactor.	For high temperature applications where, metallic capillary is suitable.	For high temperature applications where, non- metallic capillary is required.
Electrical Interface	UART and microUSB	---	---	---	---	---
Optical Interface	FC-APC	FC-APC	FC-APC	FC-APC	FC-APC	FC-APC
Power Supply	+5VDC or USB	Typical X _{in} lead-in is either PK2 (PEEK tubing, Ø0.95mm, max 200°C) for SST (Corrugated SS tubing, Ø1mm, max 350°C) Customer-specified FBG sensor chain configurations also available upon request				
STOCK PRODUCTS	FBGX100 FBGX400	FBG-MR0050, P, 1-FBG FBG-MR0125, P, 2-FBG FBG-MR0055, P, 4-FBG FBG-MR0010, P, 10-FBG		FBG-MR0126, P, 2-FBG FBG-MR0058, P, 4-FBG FBG-MR0155, UHT, 1-FBG	FBG-MR0166, P, 2-FBG FBG-MR0073, P, 4-FBG FBG-MR0128, UHT, 1-FBG	FBG-MR0167, P, 2-FBG FBG-MR0129, UHT, 1-FBG

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All specifications are subject to change without notice

P= Polyimide-Coated SM800P Fiber, rated -40°C to +300°C

A= Acrylate-Coated SM800 Fiber, rated -40°C to +80°C

UHT= Ultra High Strength, Pure Silica Core, rated -250°C to +800°C

98-FISN-06-A2

[QR Code to FBGs](#)

**micronor
sensors**

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