

WISTSense Point

Compact, High Accuracy Optical Fiber Sensor Interrogator

WISTSense Point is a compact, high accuracy FBG interrogator, ideally suited for demanding quasi-static sensing applications, e.g. temperature sensing. With an agile, tuneable laser source and optical etalon wavelength reference, WISTSense Point offers simultaneous, high accuracy interrogation of up to 120 FBGs. Optical spectra information is transmitted from WISTSense Point to an external computer, upon which Proximion software routines are used to calculate the resulting measurand, such as temperature, for all FBGs detected on its 4 channels. The measurand data can then be communicated via a selection of industrial interfaces.



*WISTSense Point
Benchtop model*



*WISTSense Point
Cabinet mount model*

Robust Assembly

The tuneable laser source has a pure solid state design with no moving parts, offering highly reliable and stable operation. All WISTSense interrogators are manufactured in Kista, Sweden at Proximion’s ISO9001:2015 certified site.

Inherently Safe

WISTSense Point is certified by ATEX to be part of an Inherently Safe system, able to be connected to sensors in hazardous zones 0, 1 or 2.

Industrial Bus Interface

WISTSense Point can communicate to a process PLC via an intermediate, industrial PC. Interface protocols have been developed for Ethernet, OPC-UA and ModBus. Others interfaces can be developed upon request.

Key Features

- Accurate measurement of up to 120 sensors
- Robust assembly with no moving parts
- Optional ATEX Certification
- Highly adaptable SW platform

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Optical performance	WISTSense Point
Optical wavelength range	1528 – 1568 nm
Number of channels	4
Number of sensors per channel	30 ¹
Measurement frequency	5 Hz
Wavelength stability	±1 pm at room temperature < ±5 pm over operating temperature range ±20 pm over 25 years
Dynamic Range	27 dB

Interface and software	WISTSense Point
Communication interface (via connected PC)	Ethernet (UDP-IP) OPC Unified Architecture ModBus ProfiNet ProfiBus on request
Optical interface	SC/APC
Software	WISTSoft Point

1. Potentially >30, limited only by wavelength budget.

Physical properties	WISTSense Point Benchtop	WISTSense Point Cabinet Mounted
Dimensions	W150 x H130 x D250 mm	W130 x H200 x D140 mm
Operating temperature	0 to 40 °C	0 to 40 °C
Power requirements	9-36 VDC or 115-240 VAC via power adaptor supplied	9-36 VDC via screw terminal
Power consumption	<8.5W	<8.5W
Weight	3.6 Kg	2.2 Kg

Certifications	WISTSense Point
Hazardous area certification (optional)	Per ATEX for hazardous zones 0, 1 or 2 with gas groups IIA, IIB or IIC.