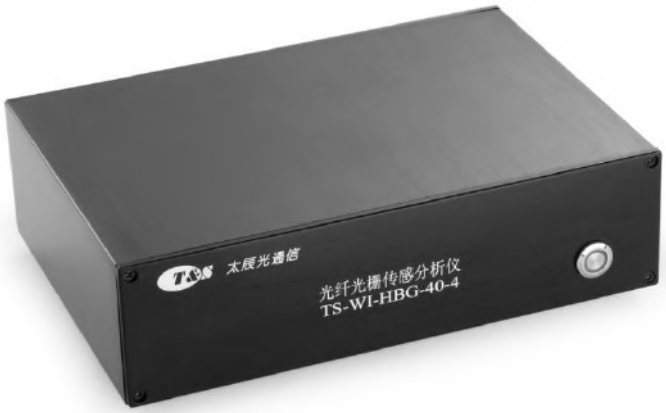
TS-WI-HS Interrogator

Description

TS-WI-HS High speed fiber grating interrogator is a new generation wavelength signal demodulator developed by T&S for measuring high frequency physical quantity change. It serves as a collector of high speed, synchronous and high accurate data like strain, vibration, pressure and displacement from various FBG sensors. It’ s featured by excellent environmental adaptability, stability. The maximum sampling rate of a single channel is up to 5000Hz.



Specification

General Performance	
Wavelength	1525nm～1565nm
Optical Channel	1/4channel available
Wavelength Resolution	±1pm
Wavelength Repeatability	±5pm
Scanning Frequency	5000Hz
Communication Interface	USB
Optical Interface	FC/APC
Operating Temperature	-25℃～+55℃
Safety Performance	
Insulation resistance, electrical strength and impulse voltage	Compliant with GB 4943.1
Environmental Adaptability	
Low Temperature	Compliant with GB/T 2423.1
High Temperature	Compliant with GB/T 2423.2

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Steady damp-heat	Compliant with GB/T 2423.3
Impulse	Compliant with GB/T 2423.5
Collision	Compliant with GB/T 2423.6
Vibration (sine)	Compliant with GB/T 2423.10
Temperature Variation	Compliant with GB/T 2423.22
EMC Performance	
Electrostatic Discharge Immunity	Compliant with GB/T 17626.2
Radiated, radio-frequency, electromagnetic Field Immunity	Compliant with GB/T 17626.3
Electrical Fast Transient/Burst Immunity	Compliant with GB/T 17626.4
Surge Immunity	Compliant with GB/T 17626.5
Conducted Disturbance Immunity Induced by RF Field	Compliant with GB/T 17626.6
Power Frequency Magnetic Field Immunity	Compliant with GB/T 17626.8
Pulsed Magnetic Field Immunity	Compliant with GB/T 17626.9
Damped Oscillatory Magnetic Field Immunity	Compliant with GB/T 17626.10
Voltage dips, short interruptions and voltage variations immunity	Compliant with GB/T 17626.11
Ring Wave Immunity	Compliant with GB/T 17626.12
Limits and methods of measurement	Compliant with GB 9254

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