TS-WI Interrogator

Description

Fiber grating interrogator is wavelength measuring equipment, which measures the center wavelength of reflected light by sending out light wave and receiving and analyzing the light signal reflected by fiber grating sensor. TS-WI interrogator can measure multiple channels and multiple sensors in each channel. Real-time measurement and historical data query function of sensor can be realized by using monitoring and analysis software developed by T&S.

Specification

General Performance	
Wavelength	1528nm～1568nm
Optical Channel	4/8/16/24channel available
Wavelength Resolution	±1pm
Wavelength Repeatability	±3pm
Scanning Frequency	1Hz
Communication Protocol	DL/T 860 (61850) Standard or Modbus
Optical Interface	FC/APC
Operating Temperature	-25℃～ 55℃
Dimension	482x250x89mm
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
Steady damp-heat	Compliant with GB/T 2423.3
Impulse	Compliant with GB/T 2423.5
Collision	Compliant with GB/T 2423.6

8 Jinxiu Middle Road, Pingshan, Shenzhen, Guangdong, 518118, P. R. China
+86 755 32983688 | info@china-tscom.com | www.china-tscom.com

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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