Rack Mount HC-DTS600 -RM

Product name	Distributed optical fiber thermometry system	
Technical parameters		
Item	Unit	Content
Measure the distance	Km	≤ 10/channel
Measurement channel	Channel	1 ~ 8 (customizable)
Measure the time	s	1s/km
Alarm threshold	℃	Users can make their own choices
Maximum number of partitions	A	1000/single channel
Maximum number of alarms	A	1000
Alarm record	Bar	≤1000
Alarm type	/	High Temperature Threshold, Temperature Rise Threshold, Area Temperature Difference Threshold
Type of fault	/	Main engine failure and fiber breakage
Size of equipment	mm	482 * 340 * 88 (standard 2U, W × D × H)
Applicable ambient temperature	℃	Thermometry host: -25 ~ + 55 Long-term temperature of optical cable: -20 ~ + 75 Short-term temperature of optical cable: -40 ~ + 150 (after 2 hours of installation, under stress-free conditions)
Thermometry range	℃	-200 ~ 300 (the measurement temperature range is determined by the structure of the optical cable)
Temperature	℃	≤0.1

HC Optical Science and Tech Co., Ltd

resolution		
Spatial resolution ①	m	1
Temperature accuracy ②	℃	≤±1
Positioning accuracy	m	≤±1
Sampling interval	m	0.4
Relay output	Road	32 (expandable)
Power supply	V	DC24
Power	W	≤15
Operating System	/	RTOS embedded system
Support agreement	/	Modbus TCP, private TCP/IP (customizable)
Host interface	A	USB*1、RS232*2、RJ45*2、RS485*2、CAN*1
Fiber type	/	MM：62.5/125μm、50/125μm SM: 9/125 μm (customizable)
Connector type	/	FC/APC, E2000 (customizable)
Storage temperature	℃	-40~+80
Operating humidity	/	(0-95%) R. H. Non-condensable
Host life	Year	10
Screen size	Inch	4.3
Degree of protection	/	Host IP30, optical cable IP68
Weight of the main engine	Kg	≤4.5

Note ①: The spatial resolution of the host is 2.5KM at the typical temperature of 25 ℃, measured by the method of 10% -90% of the rising edge of the temperature curve.

Note ②: When the host is at a typical temperature of 25 ℃, the temperature range of 2.5KM optical cable is 20 ℃ -100 ℃.

HC Optical Science and Tech Co., Ltd

DTS product structure diagram

HC Optical Science a.