

Rack Mount HC -DTS 800-U-DL

Product name		Dis	tributed optical fiber thermometry system	
Technical parameters				
Project	U	Init	Content	
Measure th distance	e	٢m	 ≤ 16 (10km/channel recommended for spatial resolution 1m, 5km/channel recommended for spatial resolution 0.5m, 20km/channel recommended for spatial resolution 3m) 	
Measureme channel	nt Cha	annel	1 ~ 16 (customizable)	
Measure the	ime	S	2s/km@0.5m spatial resolution, 1s/km @ 1m spatial resolution	
Alarm thresh	old	°C	Users can make their own choices	
Alarm partiti	on	А	800/single channel	
Maximum number of ala		A	1000	
Alarm reco	d E	Bar	≤1000	
Alarm type)	/	High temperature threshold, positive temperature rise threshold, regional temperature difference threshold, user-defined warning, etc.	
Type of fau	lt	/	Main engine failure and fiber breakage	
Size of equipmen		nm	482 × 420 × 133 (standard 3 U, W × D × H)	
Applicable ambient temperatur	57	°C	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)	
Thermomet range	ry	°C	-200 ~ 300 (the measurement temperature range is determined by the structure of the optical cable)	
Temperatur resolution	-	°C	≤0.1	
Spatial resolu	tion	m	0.5, 1, 3 (customizable)	
Temperatur accuracy		°C	\leq ± 1 @ 1m spatial resolution, \leq ± 1.5@0.5m spatial resolution	
Positioning accuracy)	m	≤±1@10KM; ≤±3@20KM;	
Sampling inte	rval	m	≤±0.4@10KM; ≤±1@20KM;	
Relay outp		oad	20 (expandable to 240 outputs)	

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Power supply	V	DC24、AC220			
Power	W	≤35			
Operating	/	Windows, Linux (customizable)			
System					
Support	/	Modbus TCP, private TCP/IP (customizable)			
agreement					
Storage space	G	1024 (standard mechanical hard drive), 128 (SSD			
		customizable)			
Host interface	А	RJ45*1、RS232*1、USB*2、VGA*1、HDMI*1			
	/	MM: 62.5/125μm、50/125μm			
Fiber type		SM: 9/125 μm (customizable)			
Connector type	/	FC/APC, E2000 (customizable)			
Storage	°C	-40~+80			
temperature	C				
Operating	1	(0-95%) R. H. Non-condensable			
humidity	/				
Host life	Year	10			
Degree of	/	Host IP30, optical cable IP68			
protection					
Weight of the	Kg	≤8			
main engine					
Note ①: The spatial resolution of the host is 2.5KM at the typical temperature of 25 °C,					
measured by the method of 10% -90% of the rising edge of the temperature curve.					
Note $\textcircled{2}$: When the host is at a typical temperature of 25 \degree C, the temperature range of 2.5KM					

optical cable is 20 $\,^\circ\!\mathrm{C}\,$ -100 $\,^\circ\!\mathrm{C}\,$.





HC- DTS 800 product structure diagram