

The products in the FL Series can measure temperatures in environments subject to high-frequency waves, microwaves, or high voltages-areas where electric thermometers such as thermocouples, platinum resistance temperature detectors, and thermistors are typically ineffective.

FL模式系列

荧光式光纤温度计FL模式系列可以测量金属测棒温度计不能测量的 高频率,微波及高电压等特殊环境的温度。

蛍光式光ファイバー温度計 FLシリーズは、熱電対やPt、サーミスタなどの電気式温度計では計測困難な高周波・マイクロ波または高電圧などの過酷な 環境下において接触式で温度計測が可能です。



Features

·Capable of measurements in environments subject to high-frequency waves or high voltages.

- •A fiber optic thermometer offering a wide measurement range.
- Analog output capability allows use for machine temperature control.

・可在高频率,高电压的环境下测量。
・此荧光式光纤温度计可测量广域温度。

- ·信号输出功能可用于设备的温度控制。
- ·附带的PC软件可采集测量数据。

•Measurement data can be imported into a PC using software bundled with the thermometer.

Operational environment of software (AMS-850)

OS	OS Microsoft® Windows®7, Windows®8.1, Windows®10 (for English)	
Memory	64MB or more(Operational environment of corresponding OS)	
HDD	Min. 5MB of free space(Operational environment of corresponding OS)	
Monitor	Min. resolution of 800×600 pixels	

#All PCs under the recommended environment are not guaranteed to work successfully with AMS-850.

#AMS-850 can be used only by the user that has a system administrative right (Administrator).

% Microsoft® Windows® 7, Windows® 8.1, Windows® 10 and Excel® are registered trademarks of Microsoft Corporation in the United States and other countries.

External dimensions

FL-2000















Front





Fiber probes



%The length of a fiber probe will be short after repar when the optical fiber is broken.

Specifications

Туре		FL-2000	FL-2400	
Input point		1	4	
Measurement range		-195.0~450.0°C		
Resolution		0.1℃		
Accuracy	Calibration not executed	-195.0~399.9°C:±2°C, 400.0~450.0°C:±5°C		
	Calibration executed	± 0.5 °C (within ± 50 °C of calibration point) (at an ambient temp. of 25°C ± 5 °C)		
Temperature coefficient		\pm (0.01% of F.S. /°C) within operating temperature		
Operating environment		Temperature : 0~40°C, Humidity : 15~80% RH (non-condensing)		
Storage environment		Temperature : -10~50°C, Humidity : 10~85%RH (non-condensing)		
Display		Height of character : 15mm, RED LED	Height of character : 8mm, RED LED	
Display update		1s		
Light source		Blue LED		
Power supply	AC power	Please specify a power supply voltage when ordering (choose from 100 VAC, 115 VAC, or 230 VAC).		
	Dry battery	six AA-size alkaline batteries	-	
Power consumption		approx. 12 VA	approx. 40 VA	
Memory		Up to 15,000 data, one second interval (synchronized with display)	No memory	
Interface		RS-232C Transfer rate : 9600 bps Data formation : 7 bit, odd parity, 1 stop bit		
Calibration		One-point calibration (using real temperature within a measured area)		
Output rate		10mV/℃		
Analog output	Resolution	1mV		
	Accuracy	\pm (0.2% of F.S.) at an ambient temperature of 25°C \pm 5°C		
	Temperature coefficient	± (0.01% of F.S./℃)		
External dimensions		210 (W) × 88 (H) × 230 (D) mm Protruded parts excluded	320 (W) × 99 (H) × 280 (D) mm Protruded parts excluded	
Weight		approx. 3 kg	approx. 5 kg	
Supplied accessories		Power cable (two-wire plug attached) ×1 Fuse (2A mini fuse) ×1 Analog output cable×1 Communication cable×1 PC software AMS-850 (CD ROM) ×1 User's manual (main unit and software) ×1	Power cable (two-wire plug attached) ×1 Fuse (2A mini fuse) ×1 Analog output cable×4 Communication cable×1 Conversion cable (RS-232C→USB) PC software AMS-850 (CD ROM)×1 User's manual (main unit and software)×1	

Optional accessories

19 19

TFE

mm



Various options can be tailored to meet special requirements. Please contact us for more information.